

Figure 1

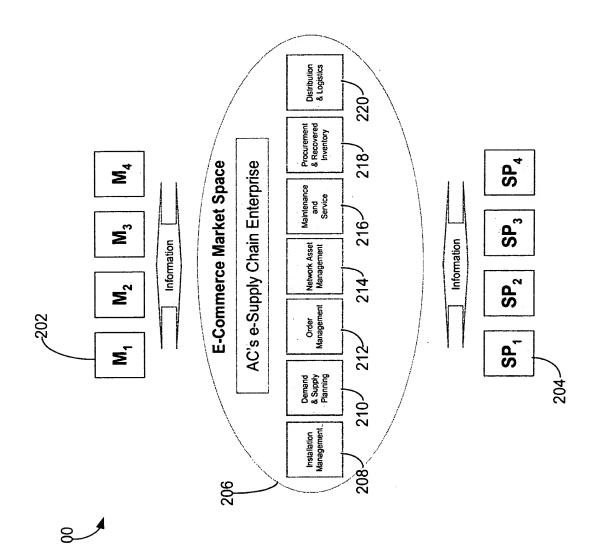


Figure 2

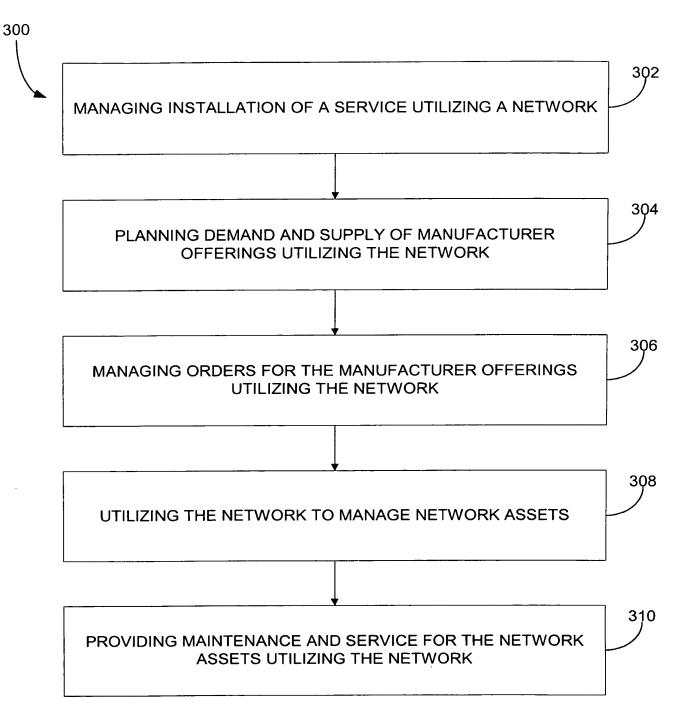


Figure 3

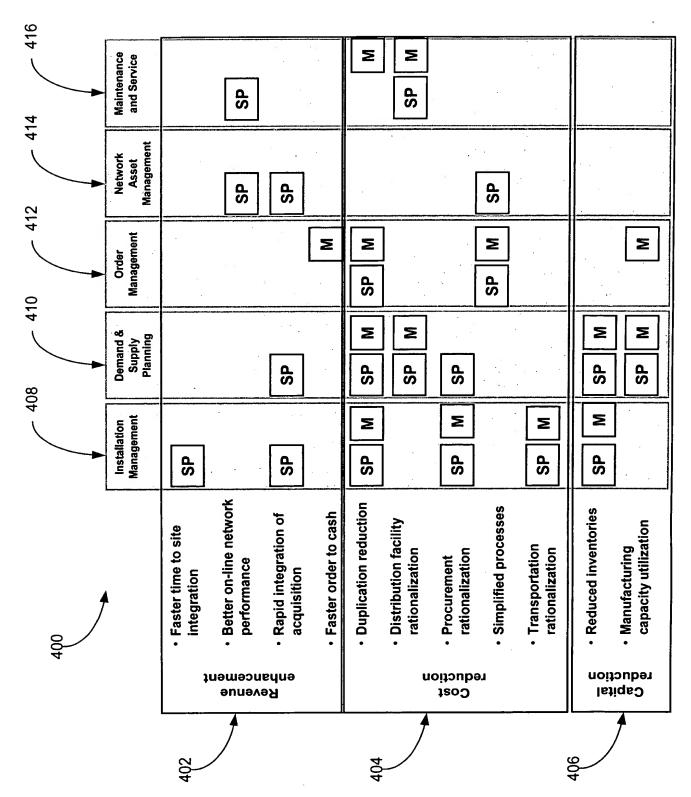


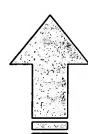
Figure 4

Core Competencies

Service Provider

- New customer acquisitions
- New customer segmentation strategy
- Strategic technology mgmt
- Technology life cycle management
- New service offerings

(i.e. capacity ánd on a capability, planned based Network is featurēs)



- network roll out Availability of synchronized with the sites is
- optimization of network assets Joint

Focus on managing production

• Focus on managing the customer relationship

Manufacturer

Focus on market coverage roll

out

• Focus on R & D

capacity

New Business Relationships

Service Provider

- channel for new service Provide an open access offerings from the manufacturer
- Move to a focus on platform release strategy in line with service offerings

Figure 5

508 manufacturer to build strategic Gain the potential to reposition the network as a platform for integrators becomes a critical differentiator their solutions pipeline alliances with solution Manufacturer • The ability for the

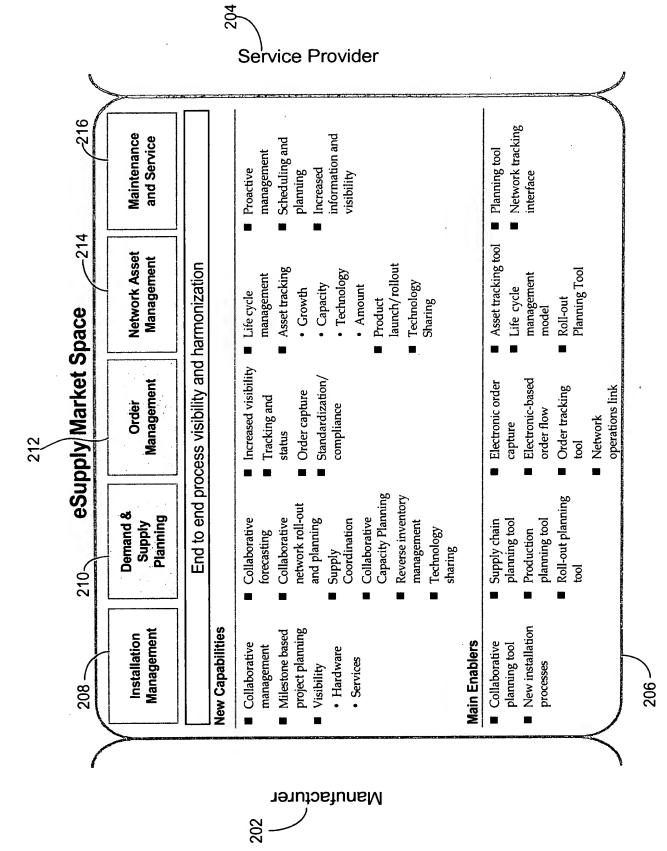


Figure 6

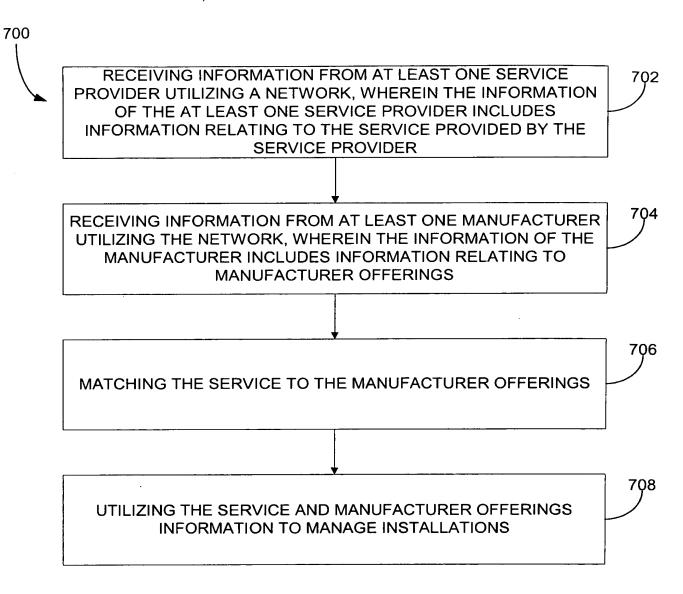


Figure 7

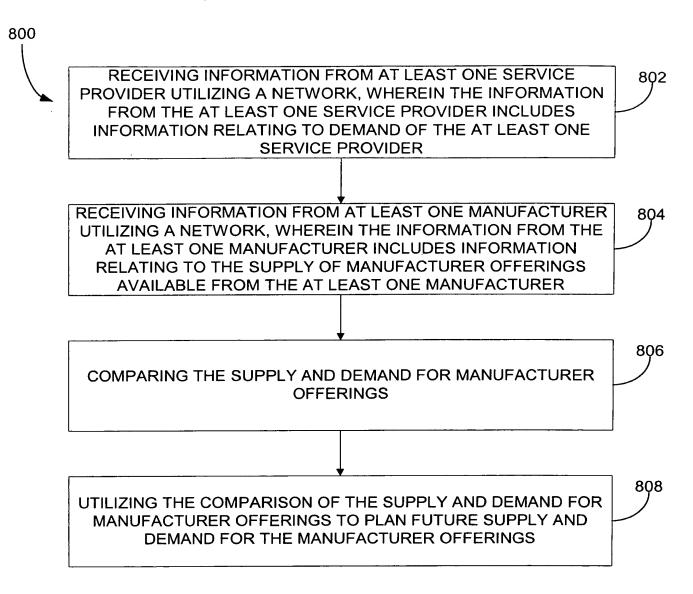


Figure 8

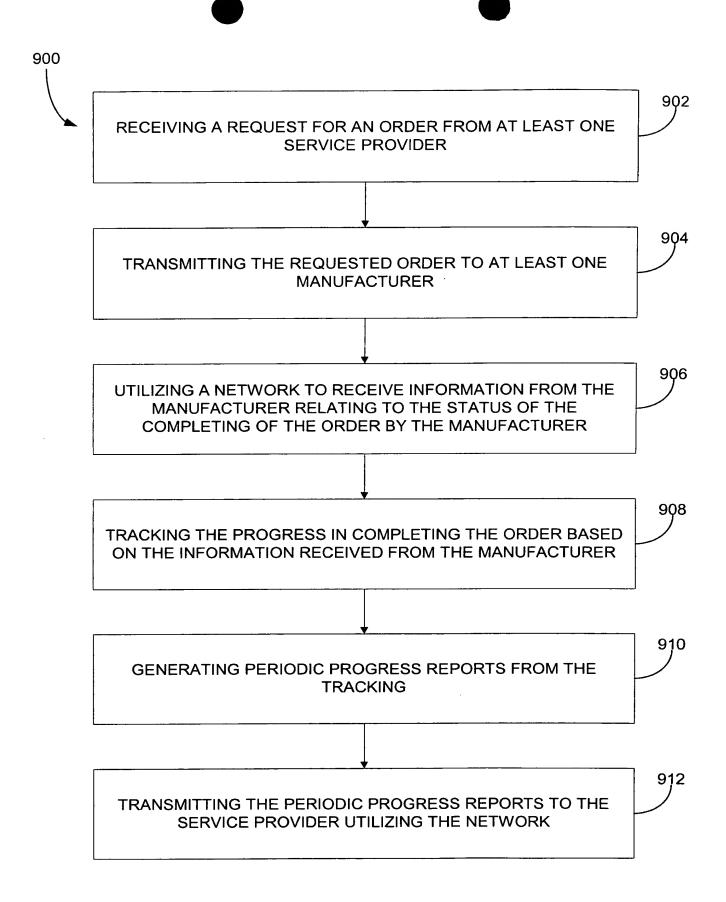


Figure 9

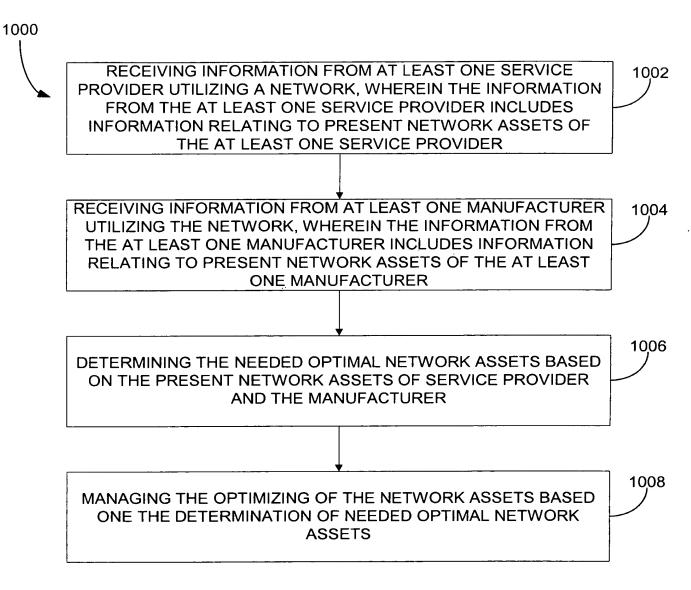


Figure 10

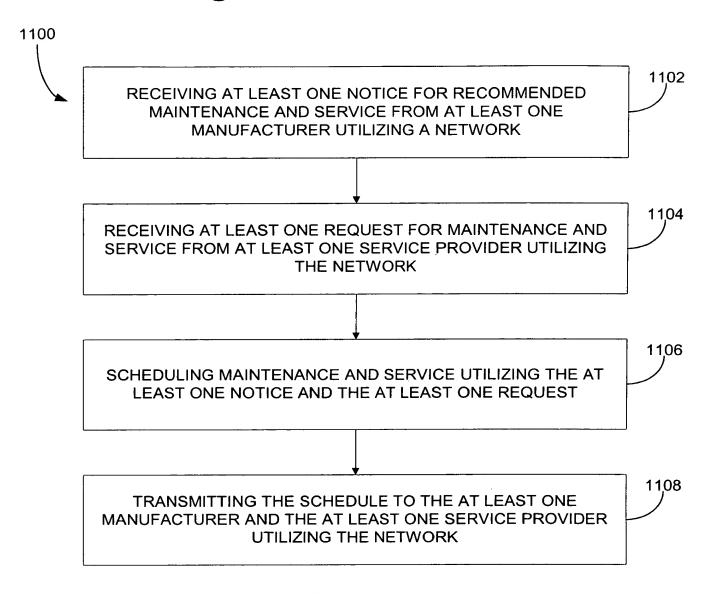
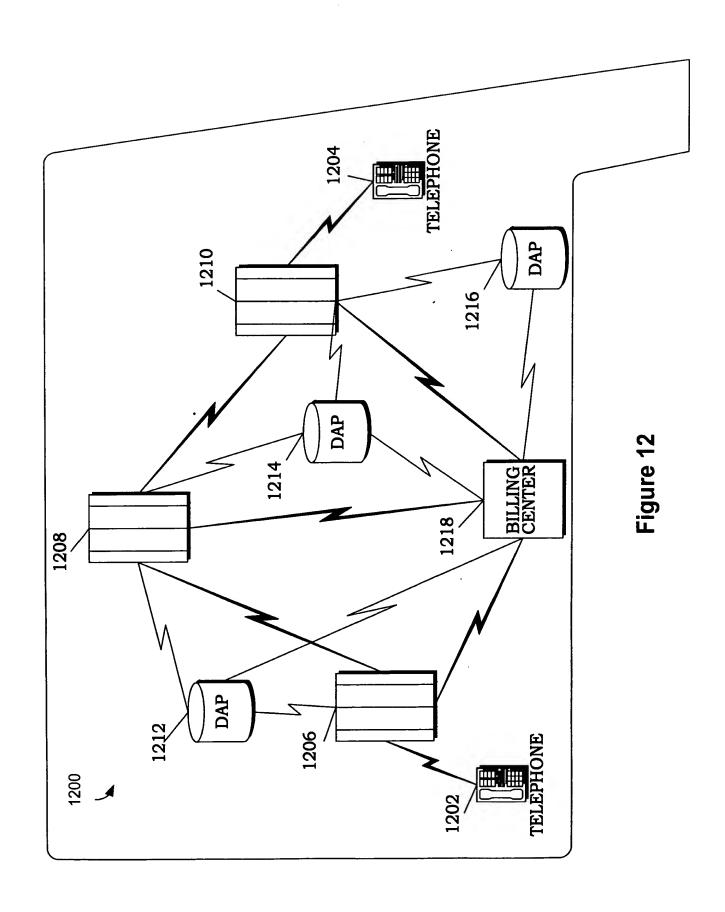


Figure 11



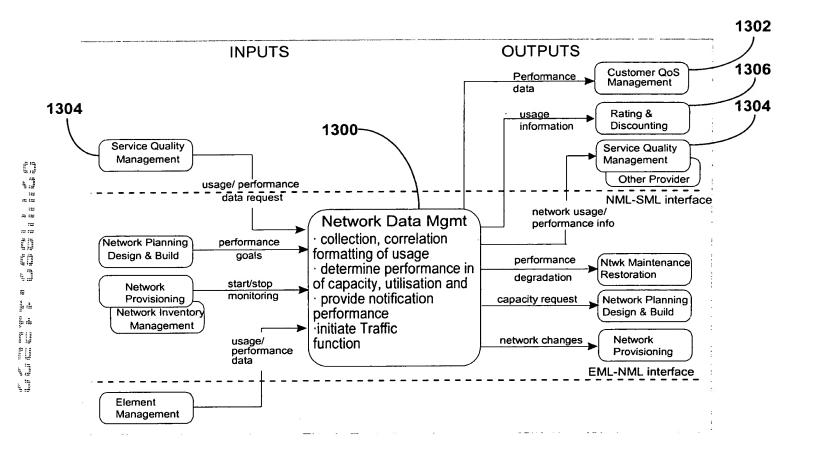


Figure 13

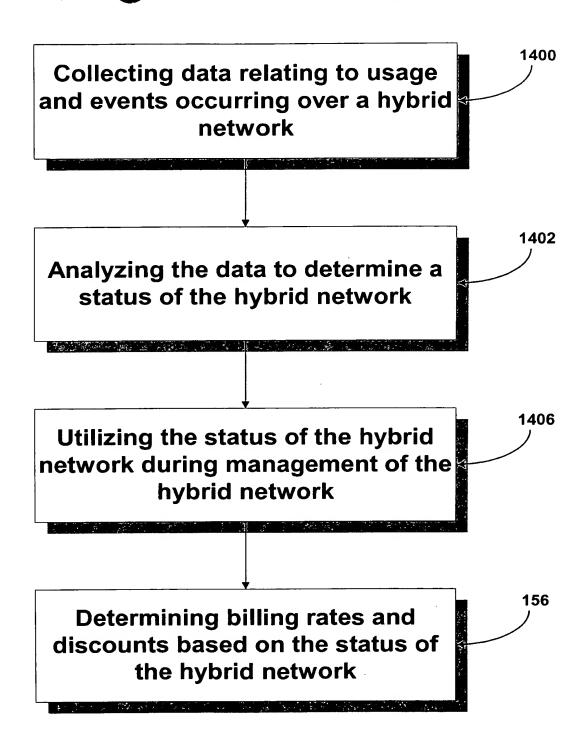


Figure 14

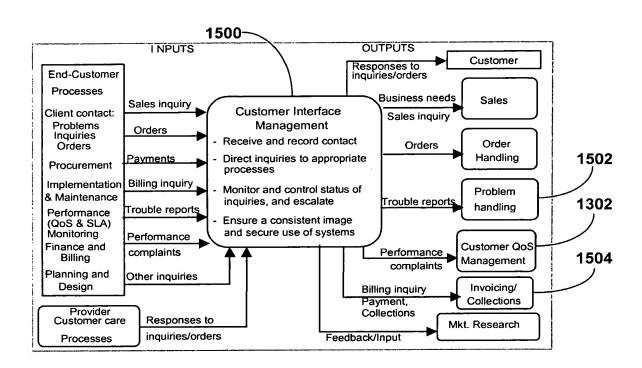


Figure 15

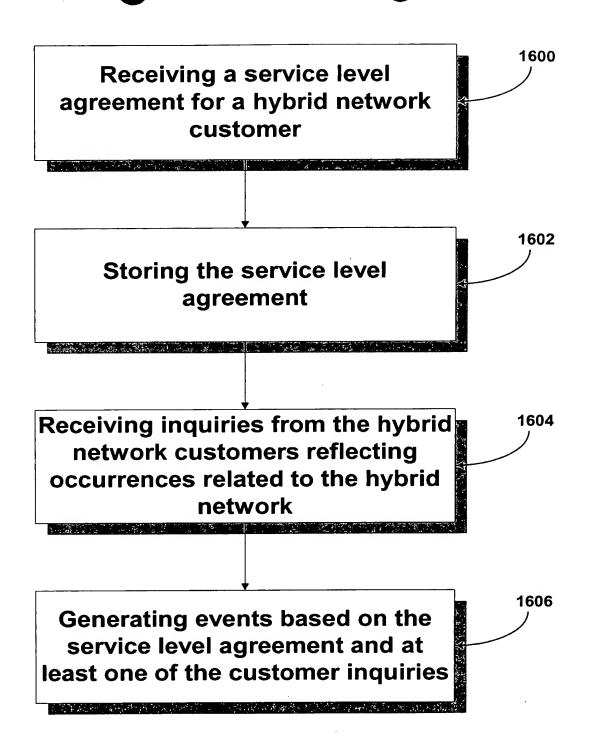


Figure 16

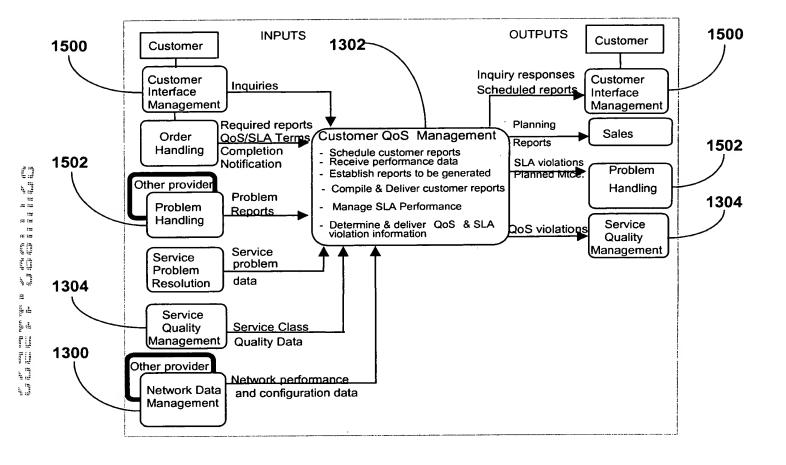


Figure 17

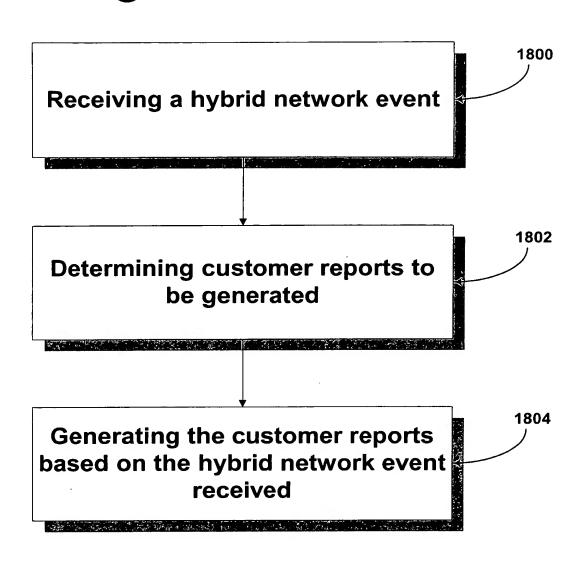


Figure 18

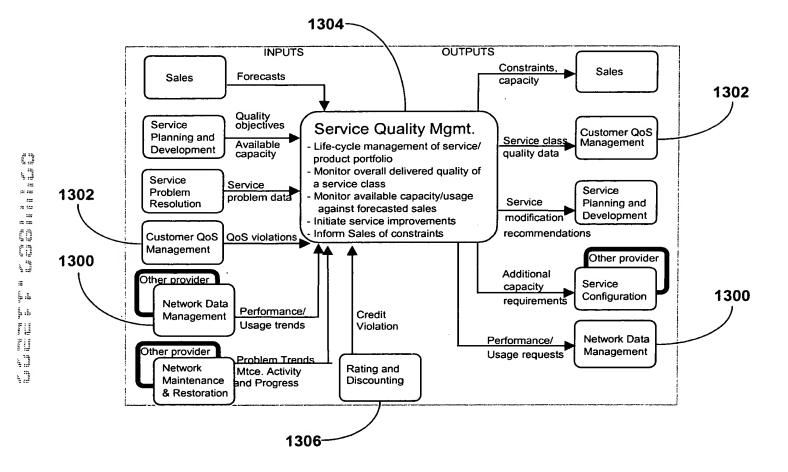


Figure 19

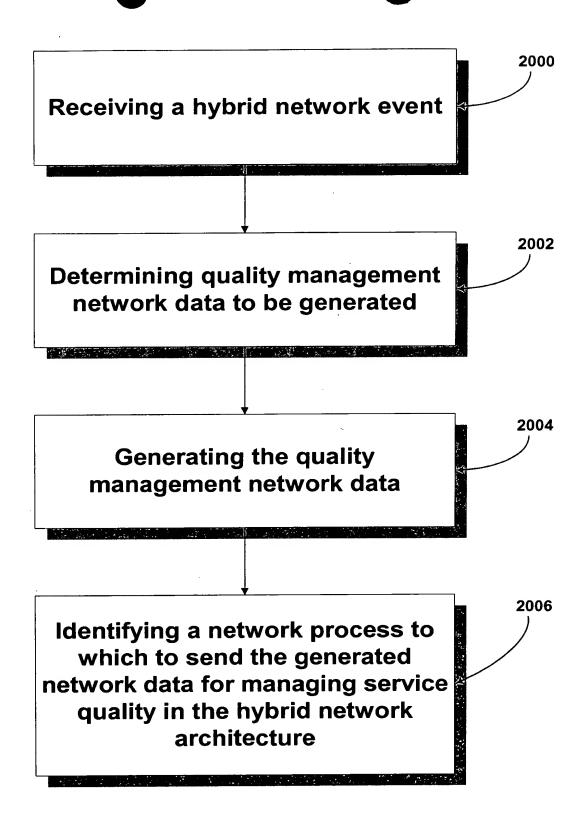


Figure 20

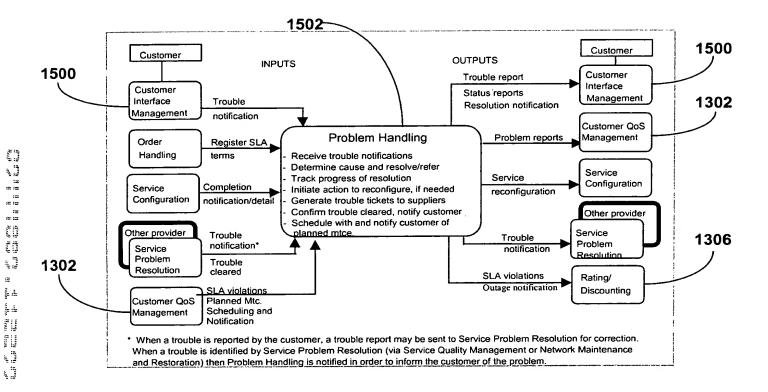


Figure 21

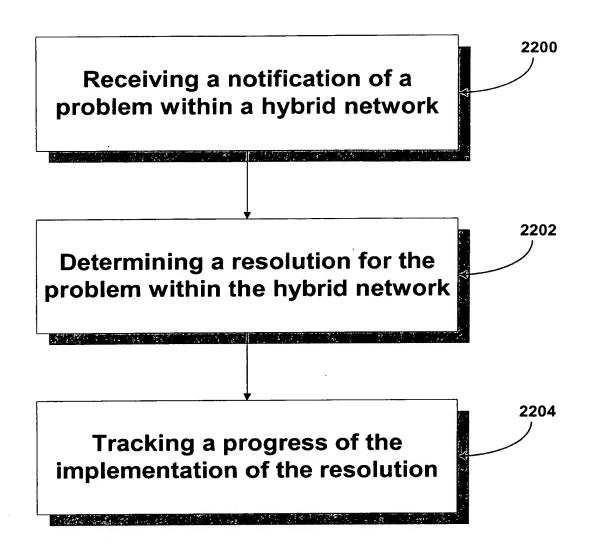


Figure 22

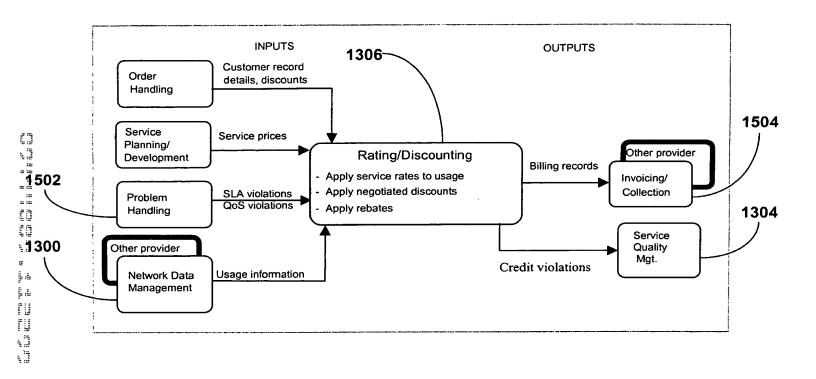


Figure 23

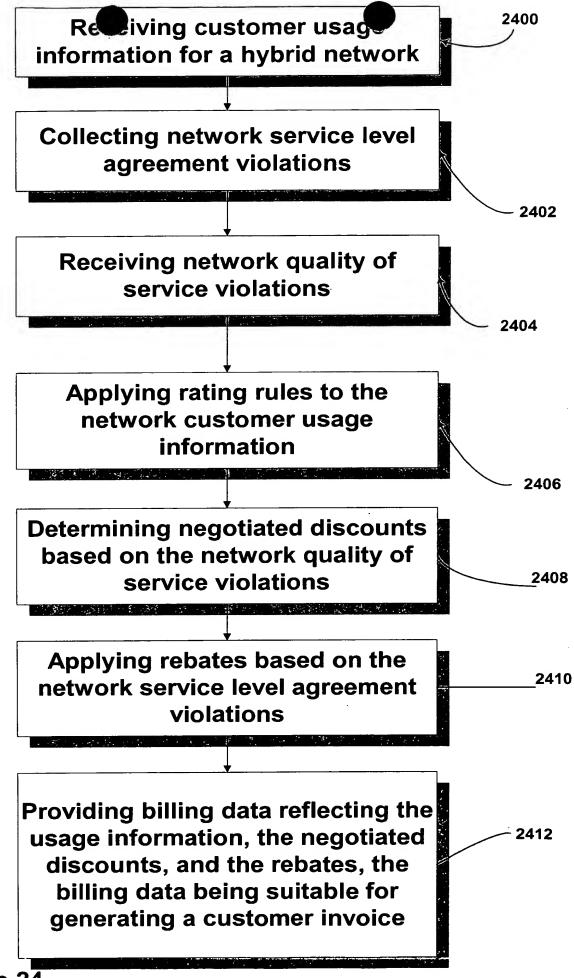


Figure 24

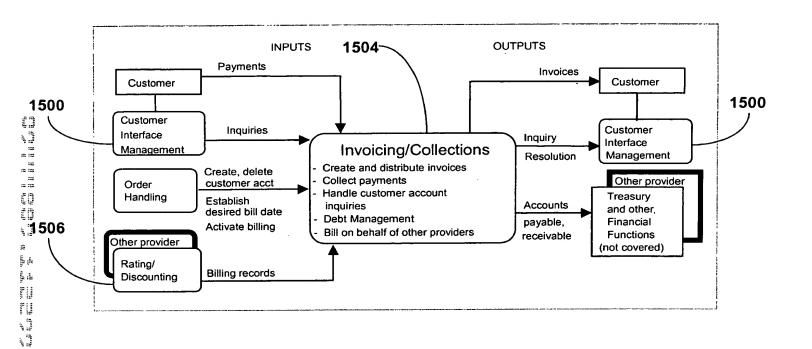


Figure 25

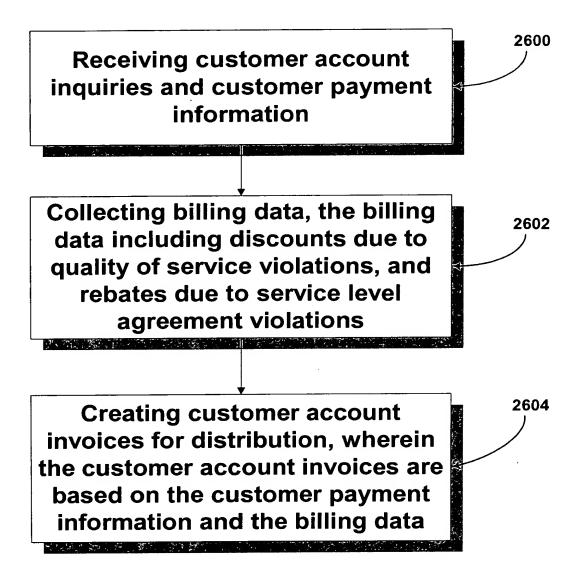


Figure 26

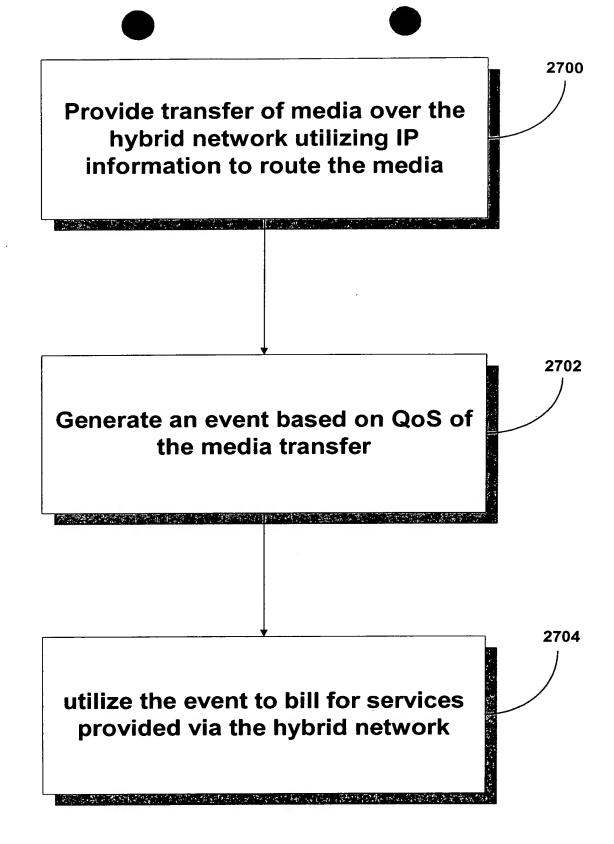


Figure 27

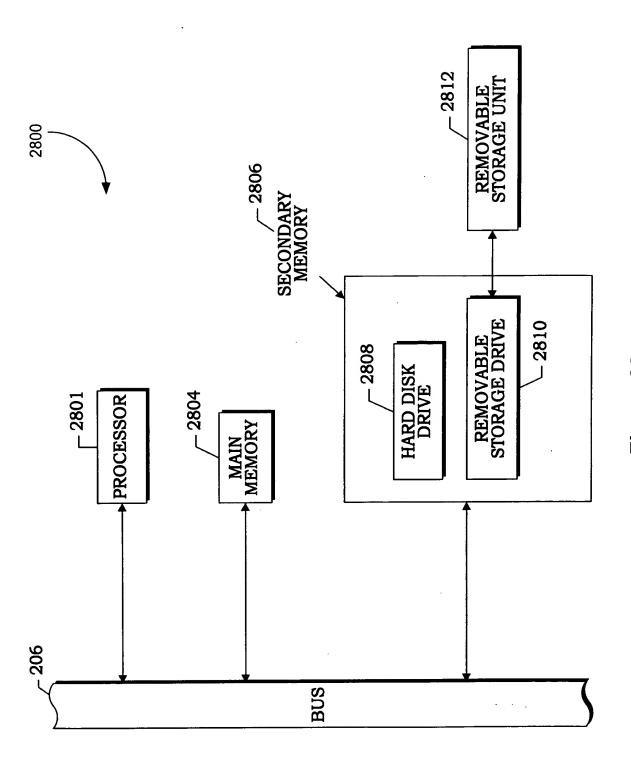


Figure 28

LSB **MSB**

•										
BITS	00 0	02 0	3 04 05	06 0	7 08 0			13	14	15
WORD 00	CR ID CD ID									
01		TP1 BITS 0-15								
02			T]	P1 BI	TS 16-3	31				
03	•	rps bij	rs 0-12					TP	60	-2
04	•	rp6 bi7	rs 3-12			TP	7 BI	rs o	-5_	
05			T	P7 BI	TS 6-2	1				
06			L. ORIG							
07	OP	TP	L. TERM	INAT	ING PO	ORT 0-1	4			
08	TP	OTG.	ORIGIN	ATIN	G TRU	NK GRO	OUP			TT
09	TE	RMINA	GING TR	UNK	GROU	P (1-12)		TF	23Q	
10	TP6Q	ACT	ION COI	DE _		OTC		T	TC	
11	ID	1	ID2			ANI INI	DEX			
12	CLI	1	CLI 2	2		CLI 3	CLI 4			
13	CLI	5	CLI (5		CLI 7		CLI 8		
14	CLI	9	CLI 1	0		A2				
15	A		A 4			A5			A6	
16	A'	7	A8			A9			A10	
17	A1	1	A12			A13		A14	1	
18	A1	5	A16			A17		A18	3	
19	A1	9	A20			A21		A22		
20	D	1	D2			D4				
21	D	5	D6			D8				
22	D	9	D10)	D11		D12			
23	D1	.3	D14	•]	D15		D16	5	
24	D1	.7	PTD	1	F	PTD2		PTD	3	
25	PTI	04	PTD:			PTD6		PTD	7	
26	PTI		PTD			TD10				
27	FC		TMC]	KAT		TP70		
28			Y CODE		PD	ND II		DΓ		_
29		CC IN	 	DDE					CLI	
30	CI	V 1	CN2	CN2 CN3				CN4		

SS7 RELEASE CODE BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Figure 29

ACIF

BITS	00 01 02 0	3 04 05 06 0	7 08 09 1	0 11	12 13 14 15					
WORD 00	CR ID CD ID									
01	TP1 BITS 0-15									
02	TP1 BITS 16-31									
03	TP3 BI7	TP3 BITS 0-12 TP6 0-2								
04	TP6 BI7	rs 3-12		TP7	BITS 0-5					
05		TP7 BI	TS 6-21							
06		L. ORIGINAT								
07		L. TERMINAT								
08		ORIGINATIN								
09		GING TRUNK	GROUP (1	-12)	TP3Q					
10	TP6Q ACT	ION CODE	ОТС		TTC					
11	ID1	ID2		INDE						
12	CLI 1	CLI 2	CLI		CLI 4					
13	CLI 5	CLI 6	CLI		CLI 8					
14	CLI 9	CLI 10	CLI1		CLI12					
15	CLI13	CLI14	CLI	15	A1					
16	A2	A3	A4		A5					
17	A6	A7	A8		A9					
18	A10	A11	A12		A13					
19	A14	A15	A16		A17					
20	A18	A19	A20		A21					
21	A22	A23	A24		A25					
22	A26	A27	A28		A29					
23	A30	A31	A32	2	A33					
24	A34	A35	A36		A37					
25		A39	A40		A41					
26	A42	A43	A44		A45					
27	FC	TMC	KAT		TP7Q					
28										
29		SC CD DE	CN3	SA	NOCLI					
30	CN1	CN4								
31	ACIF	SS7 RELEAS	E CODE	NCII	DSEQ NL RS					

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Figure 30

MSB LSB BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

BITS	00 01 02 0	3 04 05 06 0	08 09 10 1	121	3 14 15			
WORD 32								
33								
34	ID1	ID2	ID3	I	D4			
35	ID5	ID6	ID7		D8			
36	ID9	ID10	ID11)12			
37	ID13	ID14	ID15	II	016			
38	ID17	ID18	ID19)20			
39	ID21	ID22	ID23)24			
40	ID25	PTD1	PTD2	P	rD3			
41	PTD4	PTD5	PTD6	P	TD7			
42	PTD8	PTD9	PTD10		D11			
43	PTD12	PTD13	PTD14	<u> </u>	D15			
44	EIR CAI	LL TYPE	OVF		СВ			
45	OVFCL	DTA 1		DTA 2 D				
46	DTA 4	DTA 5	DTA 6	DTA 7				
47	DTA 8	DTA 9	DTA 10	DTA 11				
48	DTA 12	DTA 13	DTA 14	DTA 15				
49	OVE		DTAC					
50	NE	TWORK CALL	IDENTIFIER (NCID)				
51		TWORK CALL	· · · · · · · · · · · · · · · · · · ·					
52		TWORK CALL						
53		TWORK CALL						
54	NE	TWORK CALL	IDENTIFIER (NCID)				
55								
56				_				
57								
58			·					
59	OUS TYPE OUIE							
60	OUIE COUNT CONT. OVFCS							
61	ORIGINATING NX64 BITMAP (1-16)							
	ORIG NX64 BITMAP(17-24) TERM NX64 BITMAP(17-24)							
63	TERMINATING NX64 BITMAP(9-24)							

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Figure 31

1	00 01		3 04	05 0	5 07	7 08	09				13	14	15
WORD 00		CR ID		CD ID									
01		TP1 BITS 0-15											
02		TP1 BITS 16-31											
03		TP4 BITS 0-12 TP6 0-2											-2_
04	T	TP6 BITS 3-12 TP7 BITS 0-5											
05						TS 6							
06				RIGIN									
07				RMIN									
08	TP			GINA'						DUP			TT
09	TERM				$\overline{}$	ROU				TP3Q			
10	TP6Q			CODE	;			TC		TTC			
11	ID1			D2				AC		TNACC			
12	CLI			LI 2				LI		CLI 4			
13	CLI			LI 6		CLI 7			7	CLI 8			
14	CLI		-	LI 10		A1				A2			
15	A3			A4		A5			A6				
16	A7			A8		A9				A10			
17				112		A13					<u>A1</u>		
18	A15			116		A17				A18			
19	A19			120		A21				A22			
20	D1			D2		D3				D4			
21	D5			D6				D7			D8		
22	D9			010				D11		D12			
23							D1	.6					
24	D17 OPIN												
25													
26	RN		RN2		RN3			RN4					
27	FC	TMC			KAT			TP7Q					
28		EC, ENTRY CO			DE	PD ND II							
29		CC IN						CN					
30	CN		Ļ		A C				NTC	IDO		+ NL	DC
31	AC	lr'	221	RELE	WD)	<u> </u>	ועו	<u> </u>	INC	פתו	<u>ry</u>	TATA 1	C

BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Figure 32

BITS	00 01 02 0	3 04 05 06 0°	7 08 09 10 11	1 12 13 14 15						
WORD 00	CR ID		CD ID	<u> </u>						
01	TP1 BITS 0-15									
02		TP1 BITS 16-31								
03	TP4 BI	TS 0-12		TP6 0-2						
04	TP6 BI	TS 3-12	TP'	7 BITS 0-5						
05		TP7 BI	TS 6-21							
06	0:	PL. ORIGINAT	ING PORT 0-1	5						
07	OP TI	L. TERMINAT	ING PORT 0-1	4						
08	TP OTG	. ORIGINATIN	G TRUNK GRO	OUP TT						
09	TERMINAGI	NG TRUNK GI	ROUP (1-12)	TP3Q						
10	TP6Q AC	TION CODE	OTC	TTC						
11	ID1	ID2	ONACC	TNACC						
12	CLI 1	CLI 2	CLI 3	CLI 4						
13	CLI 5	CLI 6	CLI 7	CLI 8						
14	CLI 9	CLI 10	CLI 11	CLI 12						
15	CLI 13	CLI 14	CLI 15	A1						
16	A2	A3	A4	A5						
17	A 6	A7	A8	A9						
18	A10	A11	A12	A13						
19	A14	A15	A16	A17						
20	A18	A19	A20	A21						
21	A22	A23	A24	A25						
22	A26	A27	A28	A29						
23	A30	A31	A32	A33						
24	A34	A35	A36	A37						
25	A38	A39	A40	A41						
26	A42	A43	A44	A45						
27	FC	TNC	KAT	TF7Q						
28	EC, ENT	RY CODE	PD ND II	DIVID						
29	DOMMCC IN	SCCDDE	DT PP XC SA	NOCLI						
30	CN1	CN2	CN3	CN4						
31	ACIF	SS7 RELEAS	E CODE NO	IDSEQ NL RS						

BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 EOSR/EPOSR FORMAT

Figure 33

MSB LSB BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

RLL2							
32	T&C C	UEST 1	T&C GU				
33	T&C C	EUEST 3	T&C GU	EST 4			
34	ID1	ID2	ID3	ID4			
35	ID5	ID6	ID7	ID8			
36	ID9	ID10	ID11	ID12			
37	ID13	ID14	ID15	ID16			
38	ID17	ID18	ID19	ID20			
39	ID21	ID22	ID23	ID24			
40	ID25	PTD1	PTD2	PTD3			
41	PTD4	PTD5	PTD6	PTD7			
42	PTD8	PTD9	PTD10	PTD11			
43	PTD12	PTD13	PTD14	PTD15			
44	EIR CAI	LL TYPE	OVF	AL CB			
45	OVFCL	DTA 1	DTA 2	DTA 3			
46	DTA 4	DTA 5	DTA 6	DTA 7			
47	DTA 8	DTA 9	DTA 10	DTA 11			
48	DTA 12	DTA 13	DTA 14	DTA 15			
49	OVE	rC	DTAC NCID				
50	NE	TWORK CALL	IDENTIFIER (NCID)			
51		TWORK CALL					
52		TWORK CALL					
53		TWORK CALL					
54		TWORK CALL					
55	T&C R	OOM 1	T&C ROOM 2				
56		OOM 3	T&C ROOM 4				
57		OOM 5	T&C ROOM 6				
58	EAC1	EAC2	EAC3	EAC4			
59	EAC5	EAC6	EAC7	EAC8			
60	EAC9	EAC10	EAC11	EAC12			
61		OPIN		OVFCS			
62							
63	RN1	RN2	RN3	RN4			

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Figure 34

BIT	00 01 0	02 03	04	05 06 07	7 08 09 1	0 1	1 12 13 14 15		
WORD 00	CR	ID	SYI	NC WOR	D (MINUS	3 2,	OCTAL 7776)		
01		CDID, CALL DISCONNECT I.D. NUMBER (0-15)							
02	CDID,	CDID, CALL DISCONNECT I.D. NUMBER (16-31)							
03	SWII	D 1		SWID	2		SWID 3		
04	ST-S	SWITCH	TY F	PE	EQ-EV	/EN	T QUALIFIER		
05		SERIT-SER EVENT TIME (0-15)							
06		SERIT-	SEF	REVENT	`TIME (16	6-3	1)		
07			FCI	OID-FIRS	ST RECO	RD	CDID (12 LSAs)		
08			LC	DID-LAS	T RECOR	SD (CDID (12 LSAs)		
09					 		CDID (12 LSAs)		
10	NBS						NUMBER		
11					TIME (0-				
12		PT-PREVIOUS TIME (16-31)							
13	SI	SI TIME OFFSET							
14									
15									
16		WARE I					E LOAD ID2		
17	SOFTV	WARE 1	LOA	D ID3			E LOAD ID4		
18	SOFTV	WARE I	LOA	D ID5			E LOAD ID6		
19	LAST P	ATCHS	S/PF			ATC	CHS/PR RLS2		
20		CDR			SCDR				
21	Q	PMR			SPMR				
22		OSR			SOSR				
23		QPOSR QSPOSR							
24	Q	SER			CNPN				
25					START TI				
26					START TI				
27	CDR THROTTLE STOP TIME (0-15)								
28	CDR THROTTLE STOP TIME (16-31)								
29		FORMAT VER.							
30		THROTTLE COUNT (0-15)							
31	THROTTLE COUNT (16-31)								

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

Figure 35

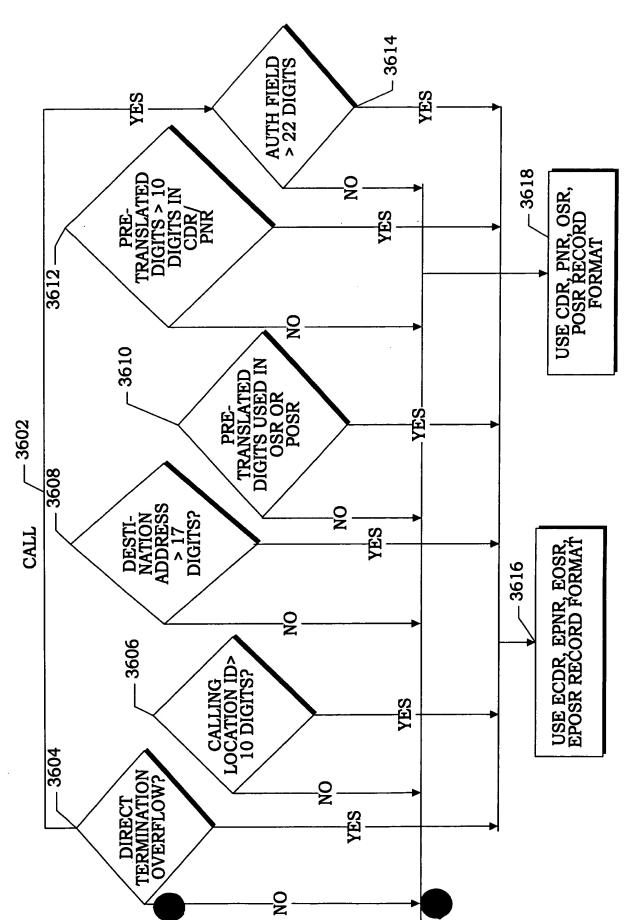


Figure 36

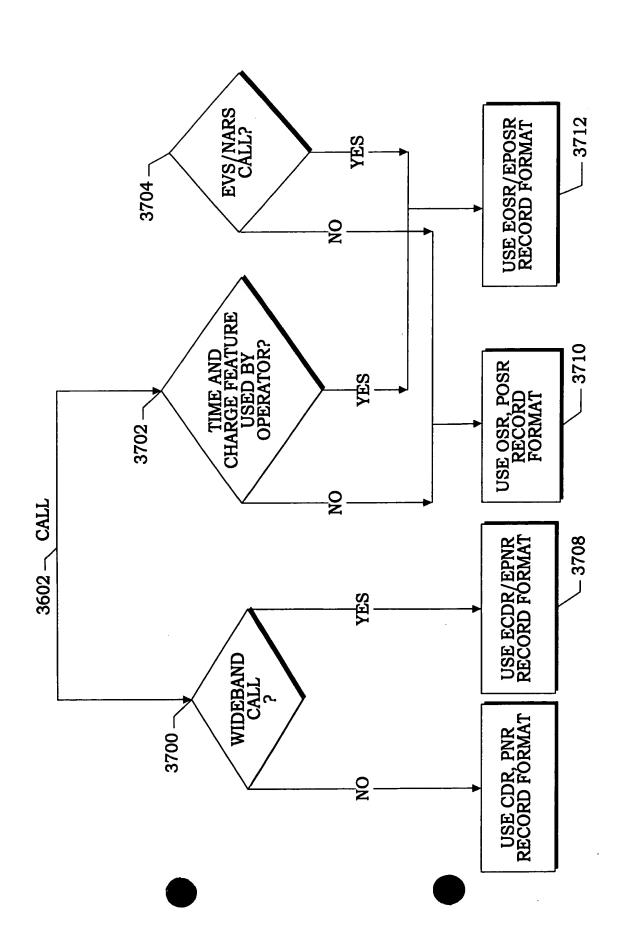


Figure 37

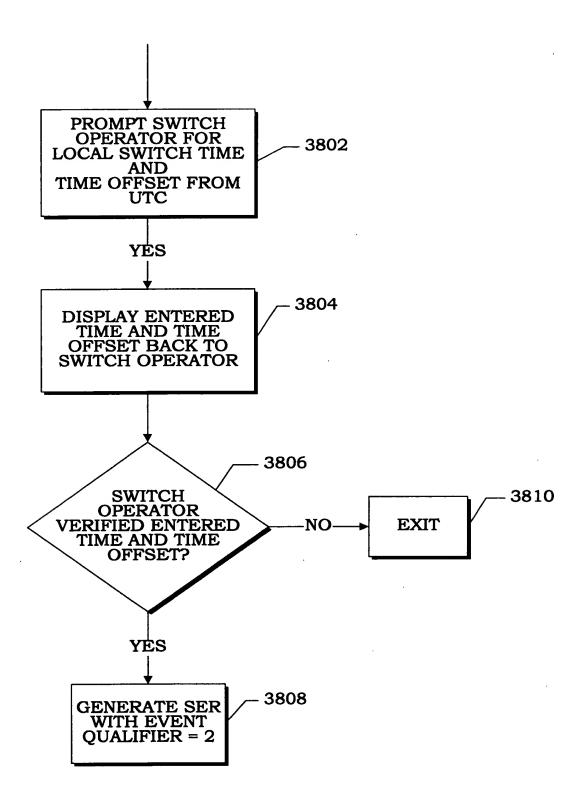


Figure 38

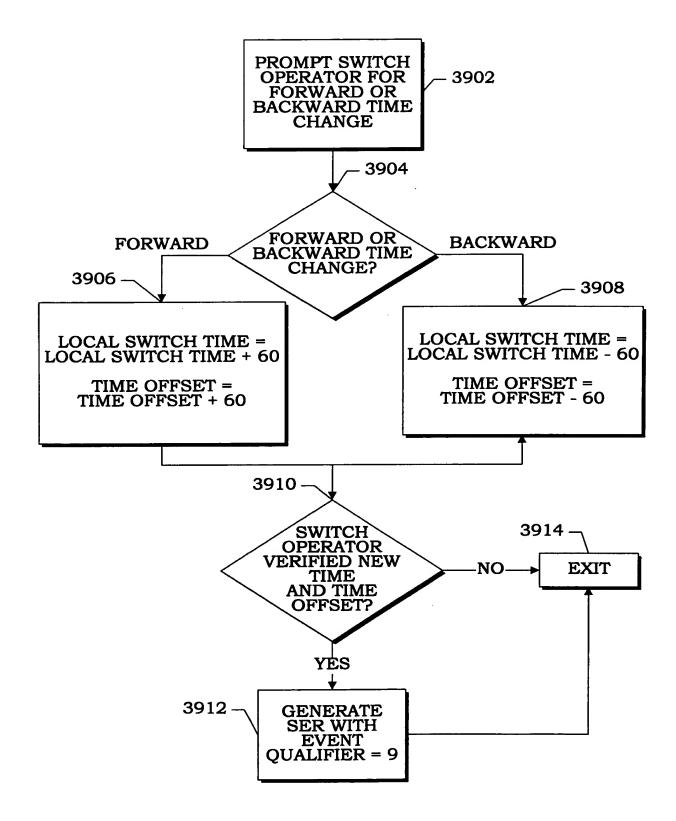


Figure 39

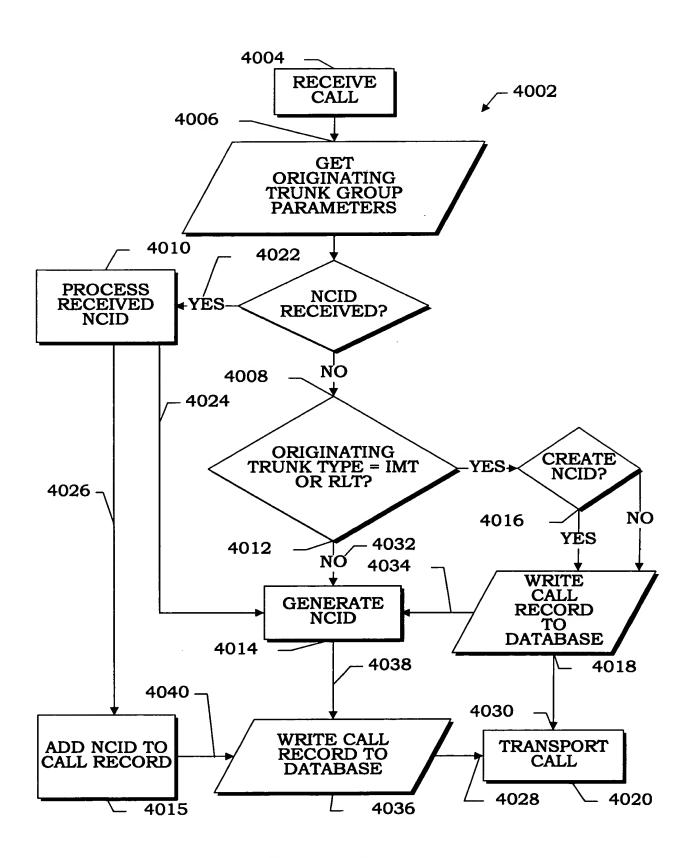


Figure 40

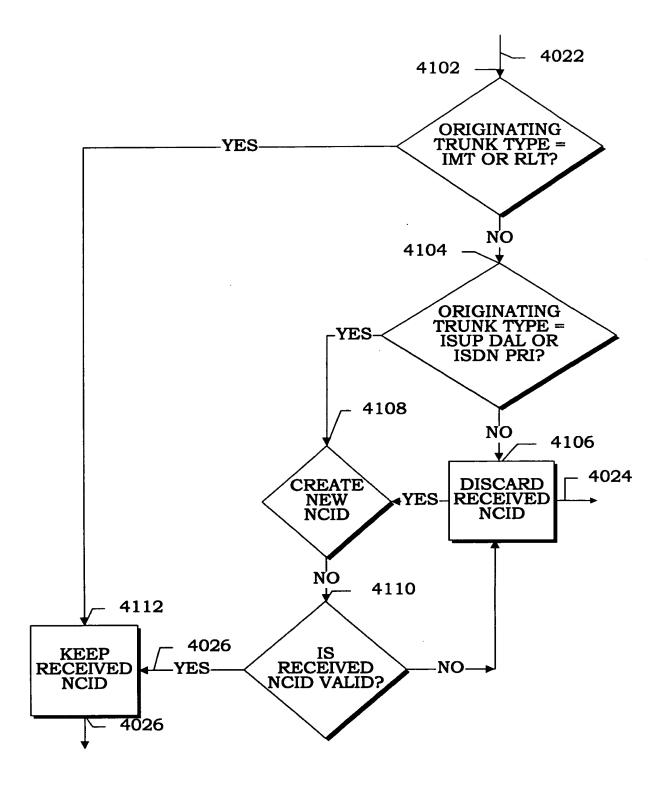


Figure 41

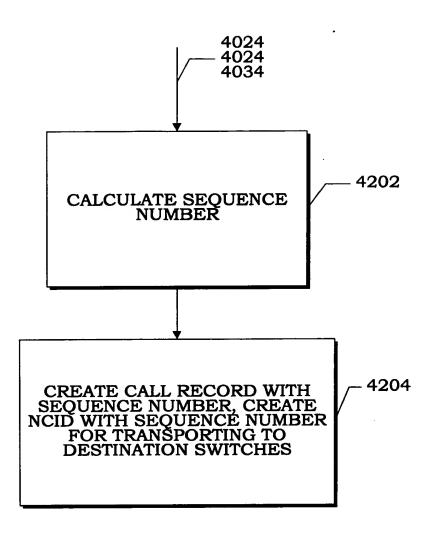


Figure 42

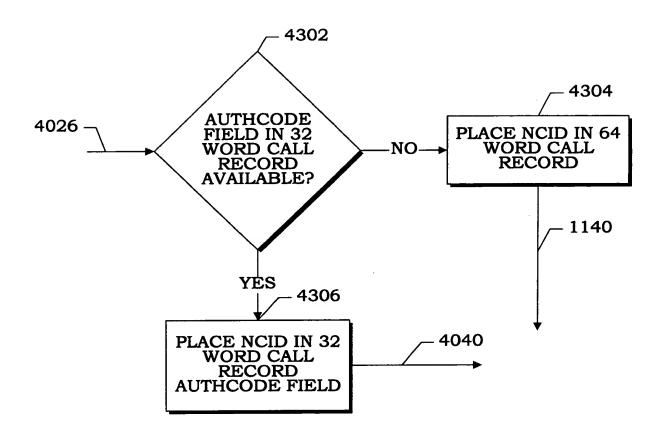
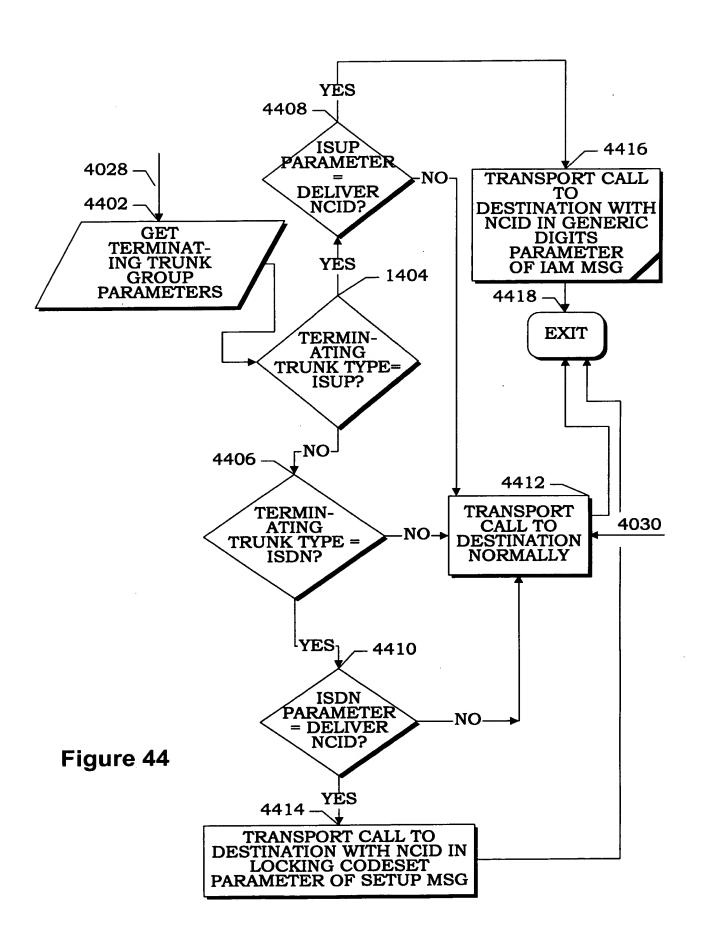


Figure 43



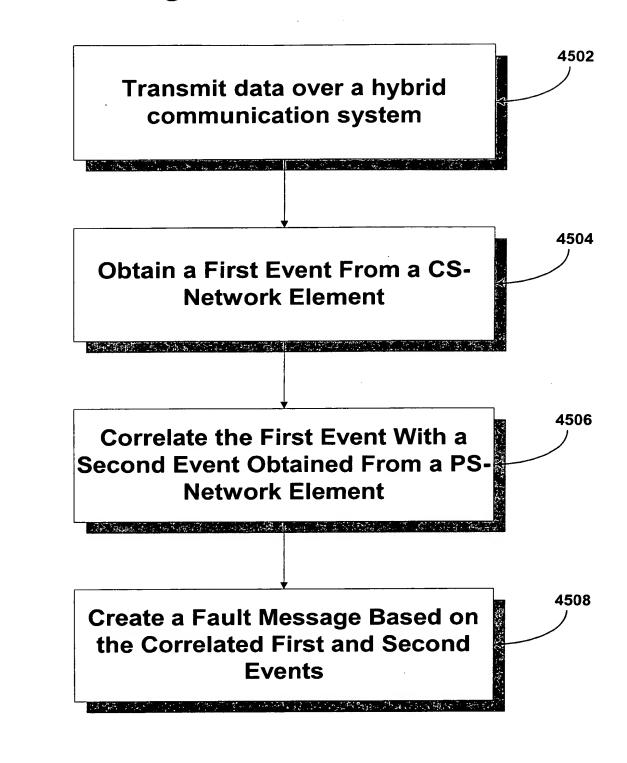


Figure 45

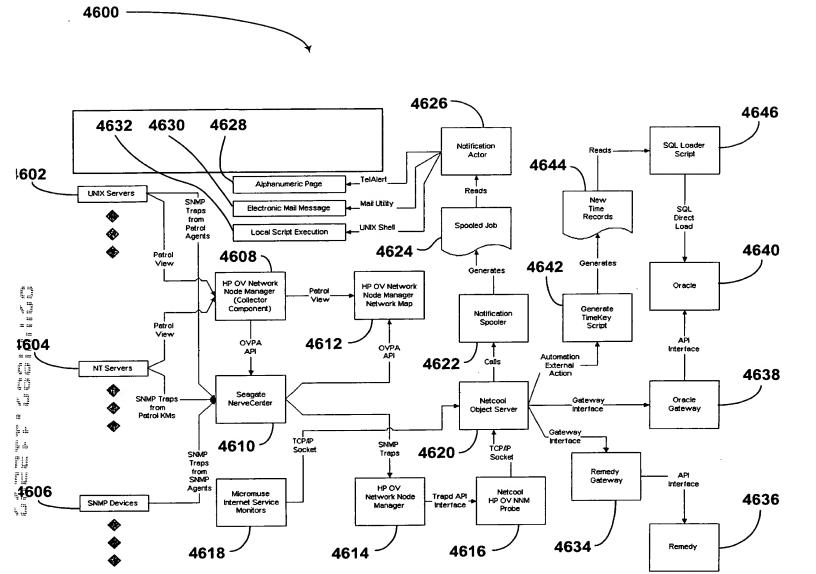
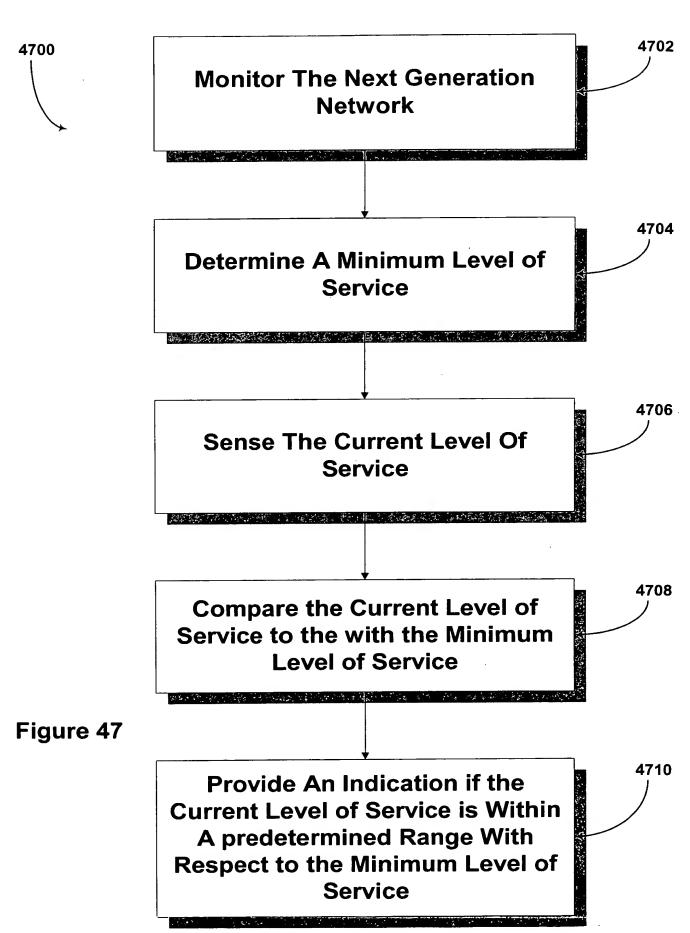


Figure 46



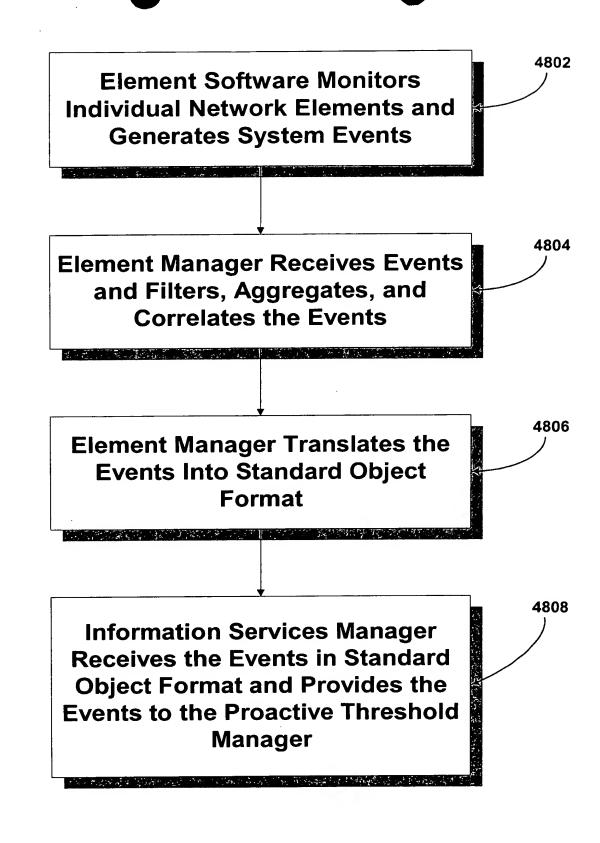


Figure 48

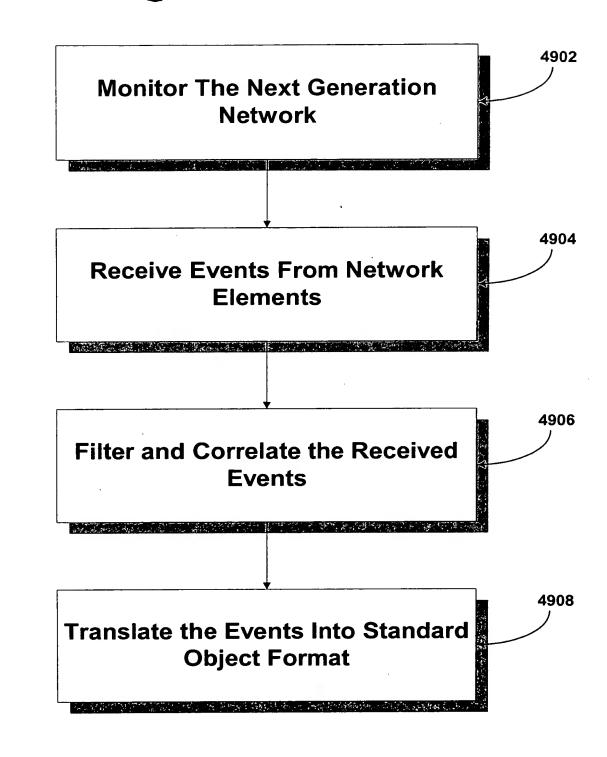


Figure 49

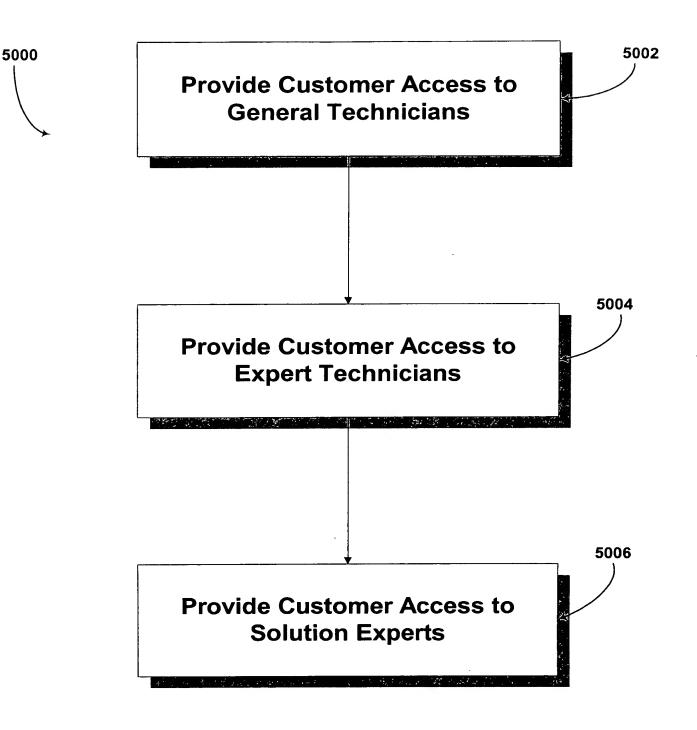


Figure 50

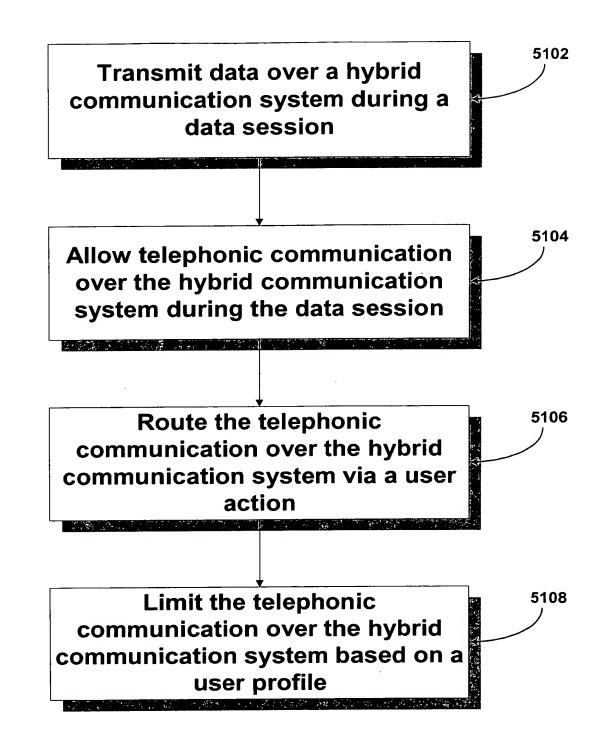


Figure 51

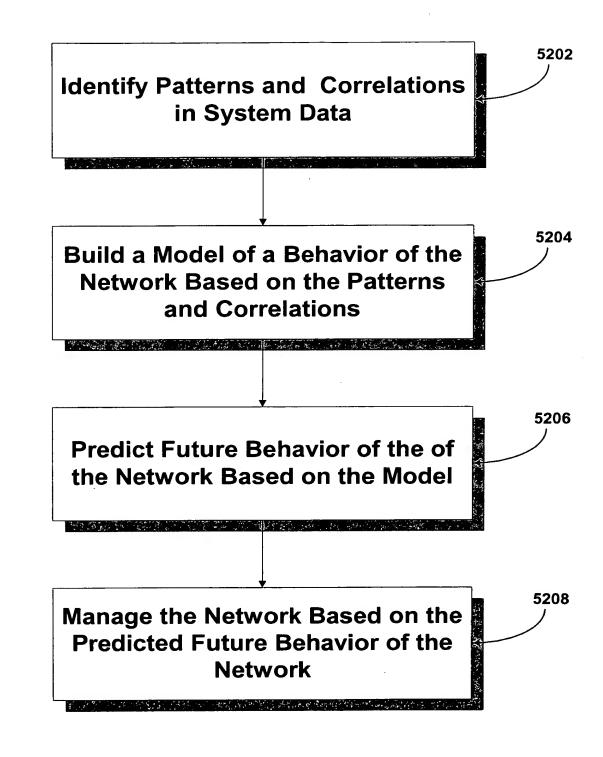


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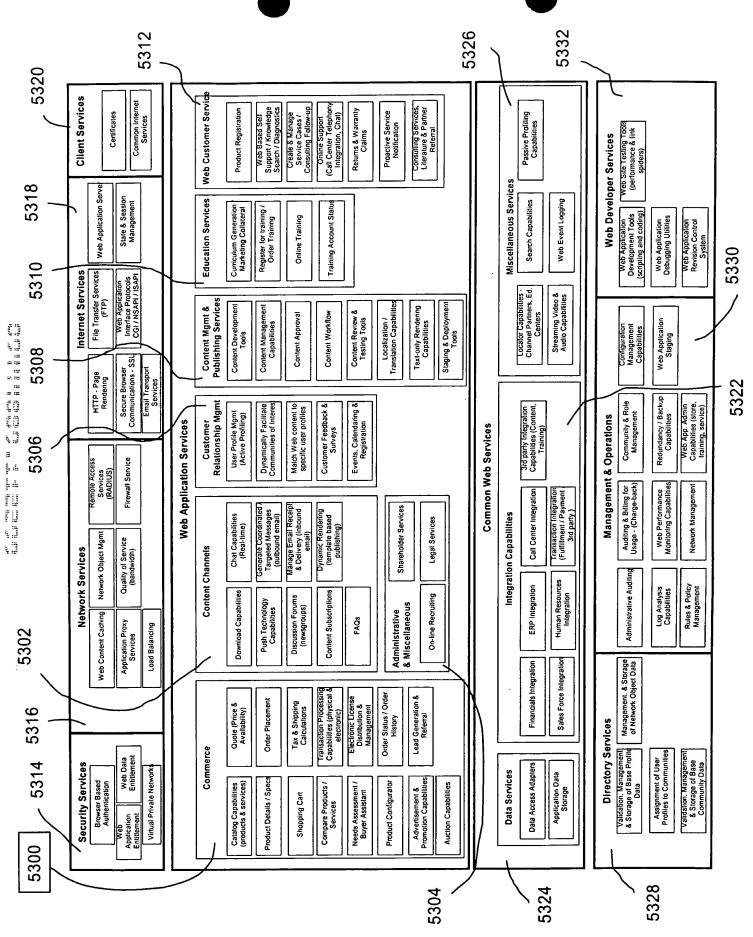
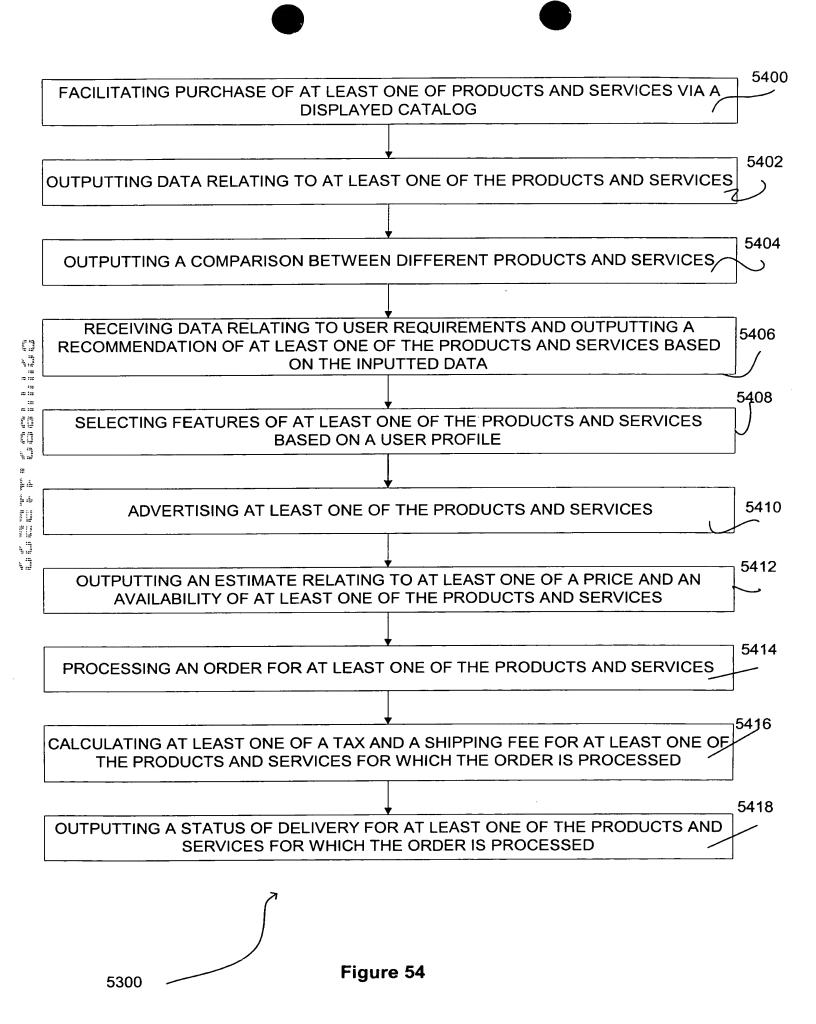


Figure 53



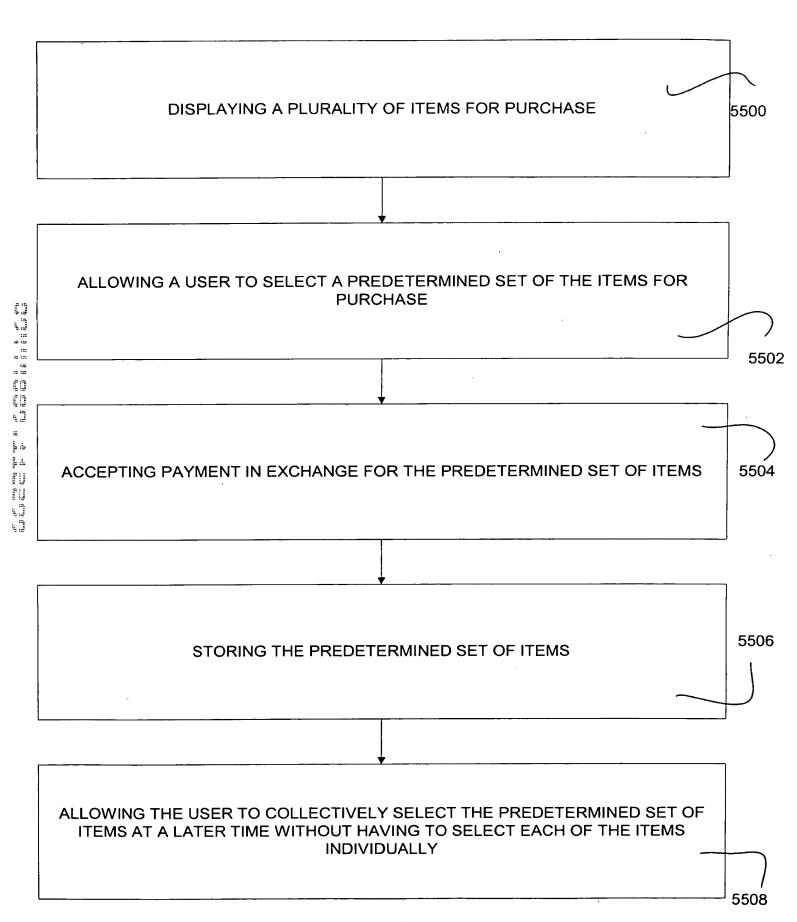
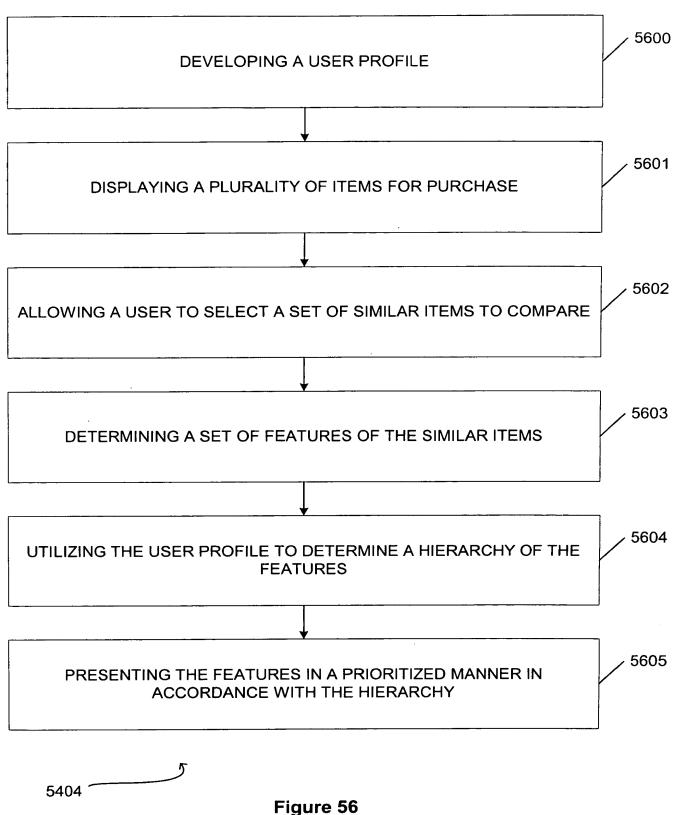


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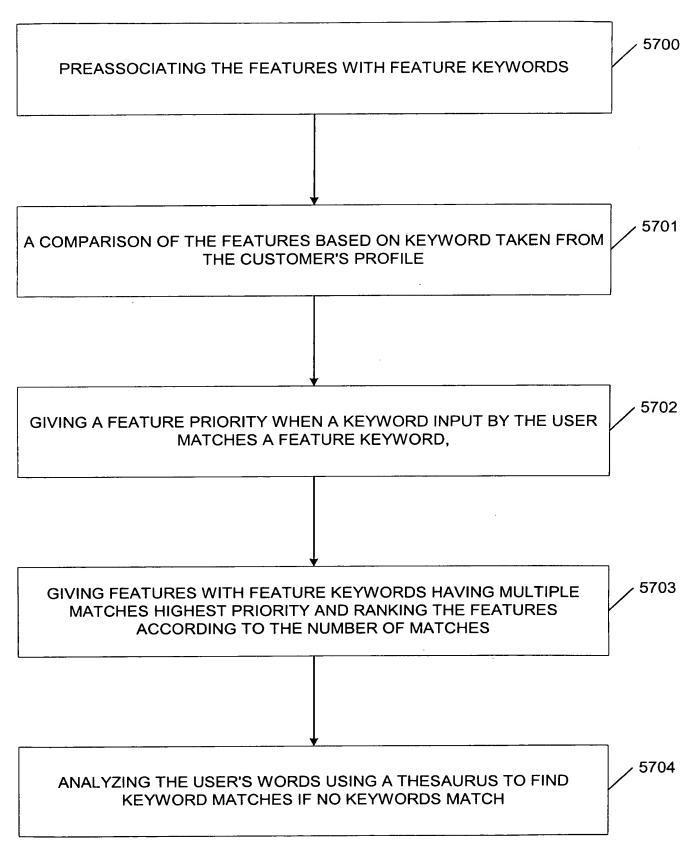
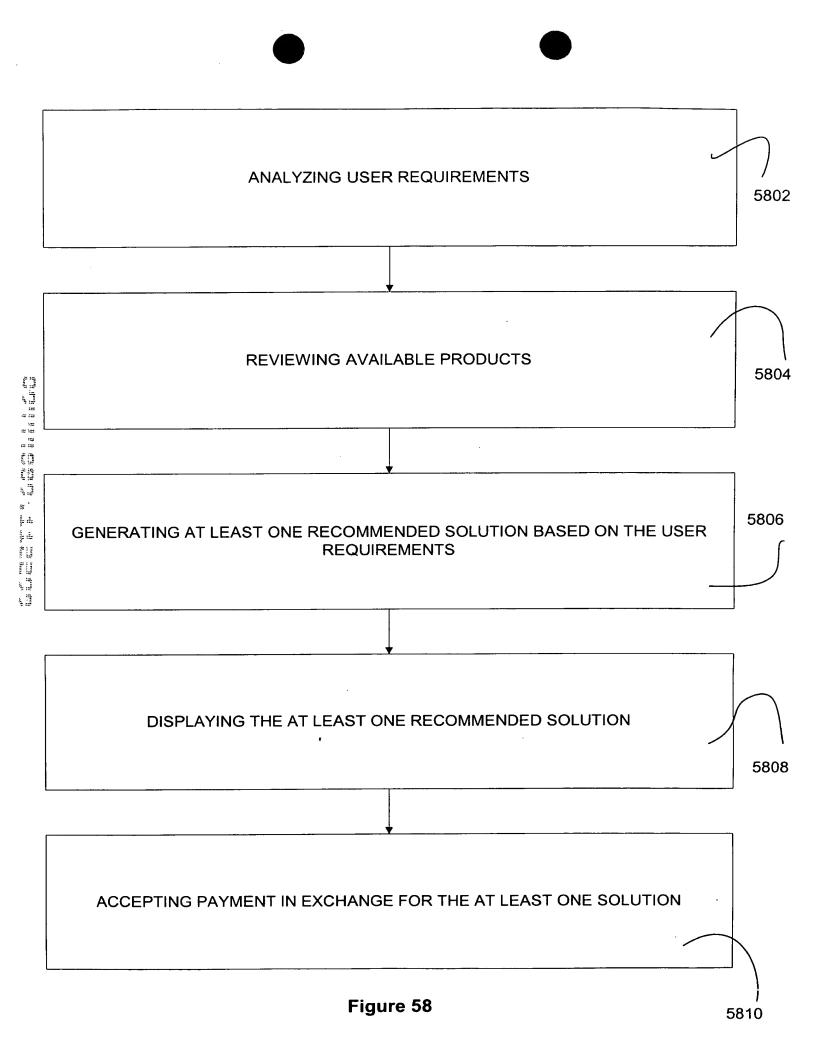
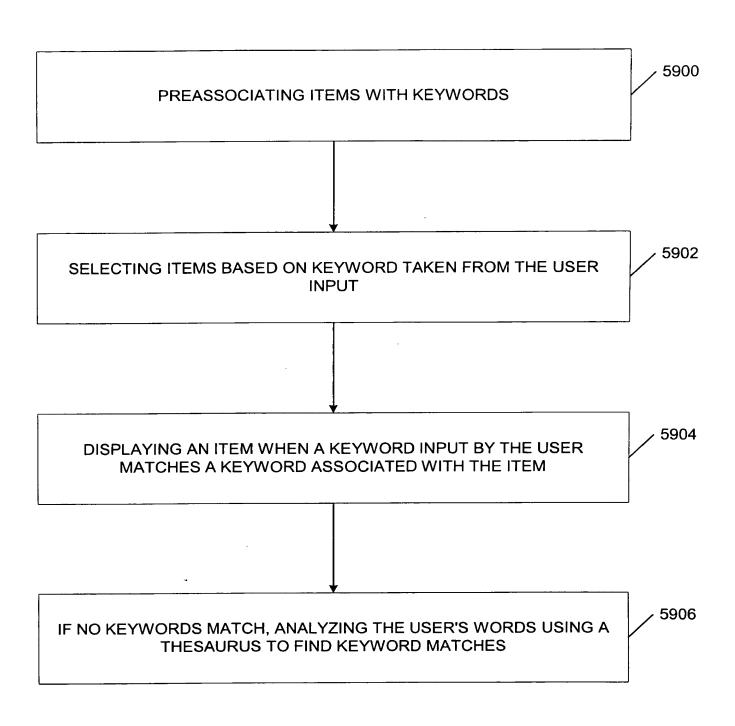


Figure 57





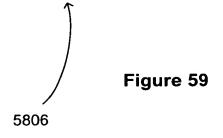


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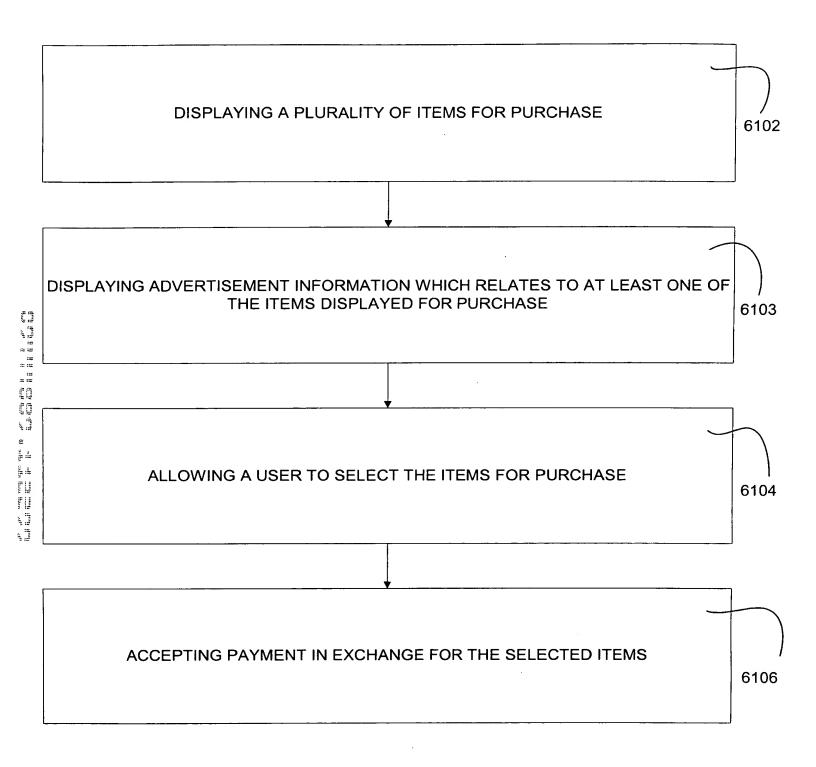
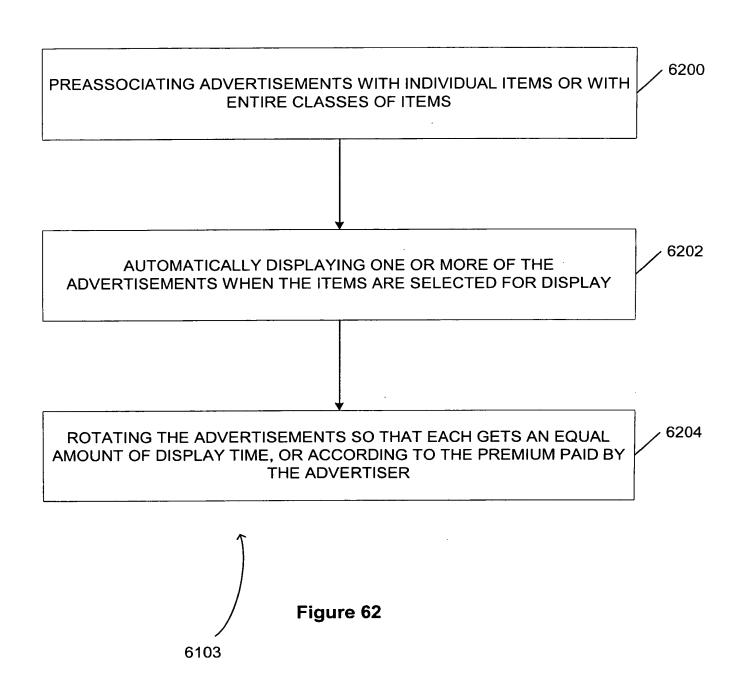
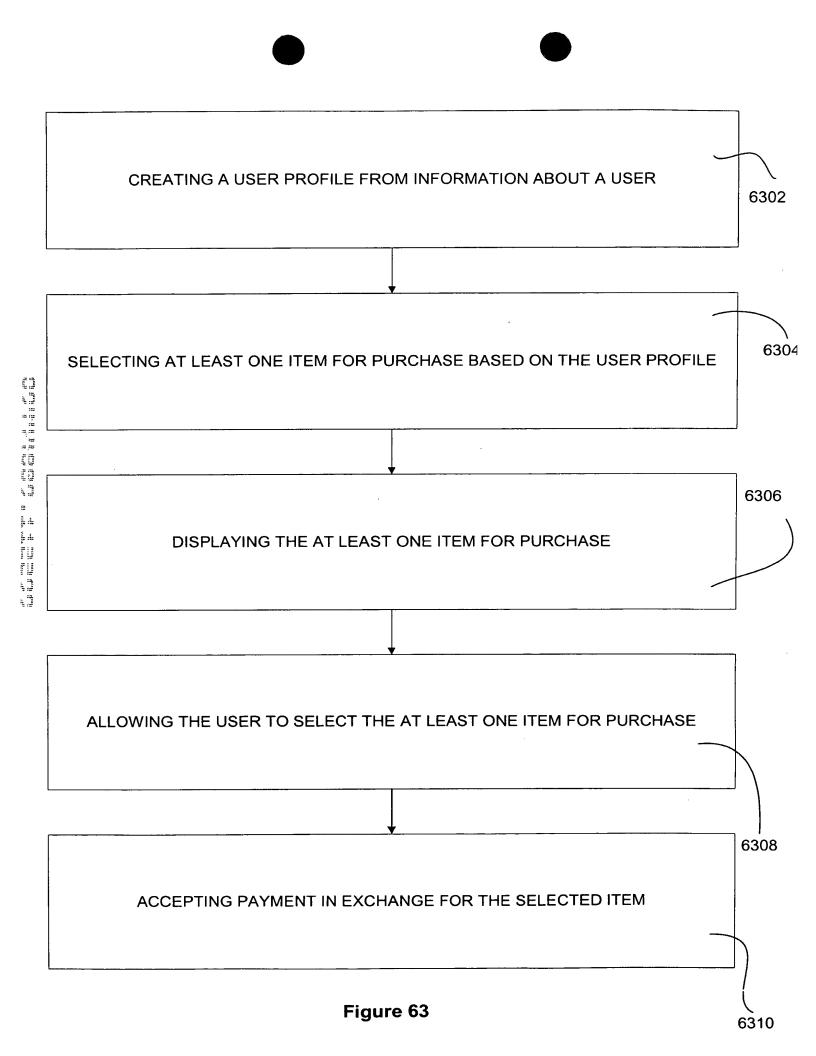
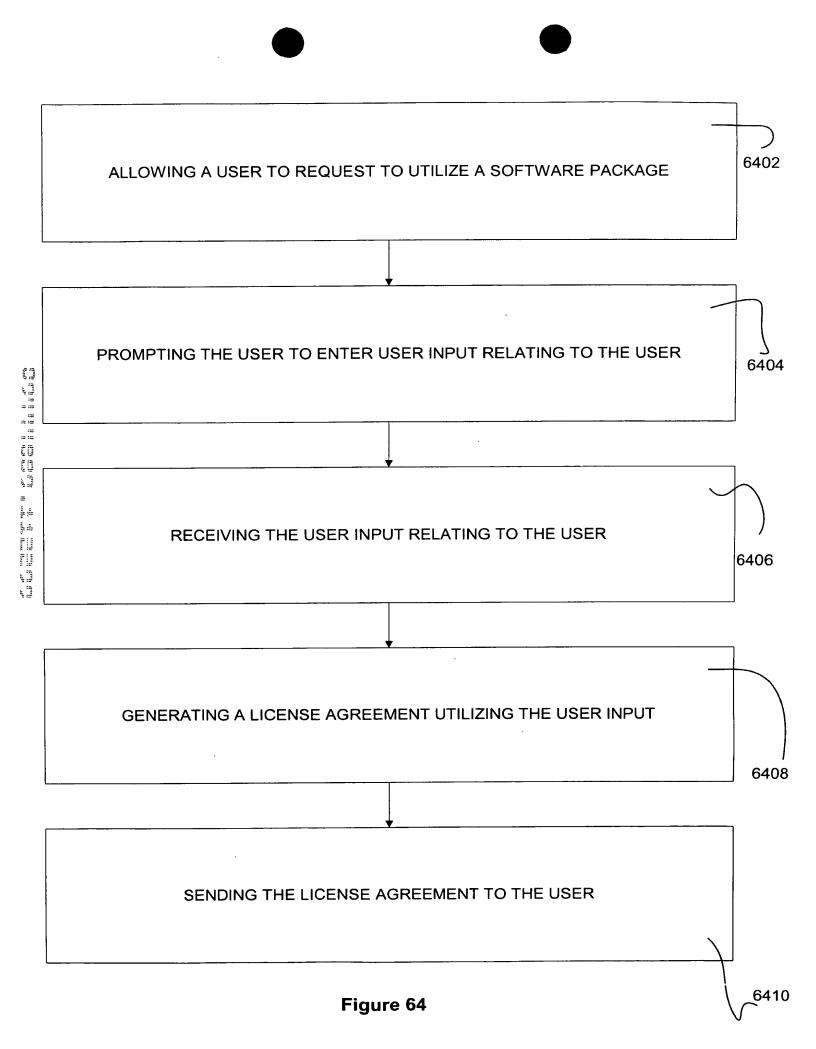
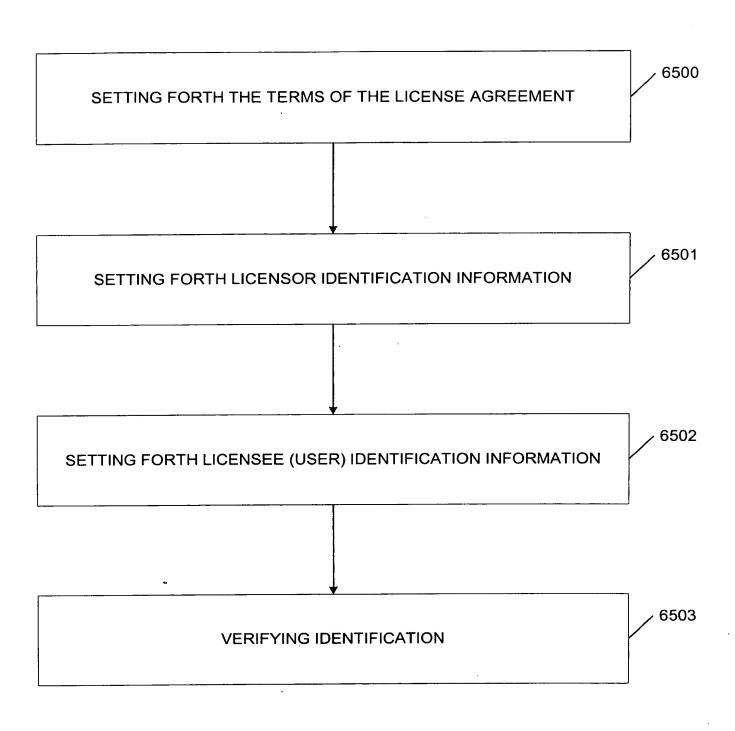


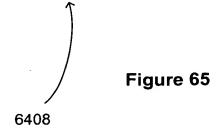
Figure 61











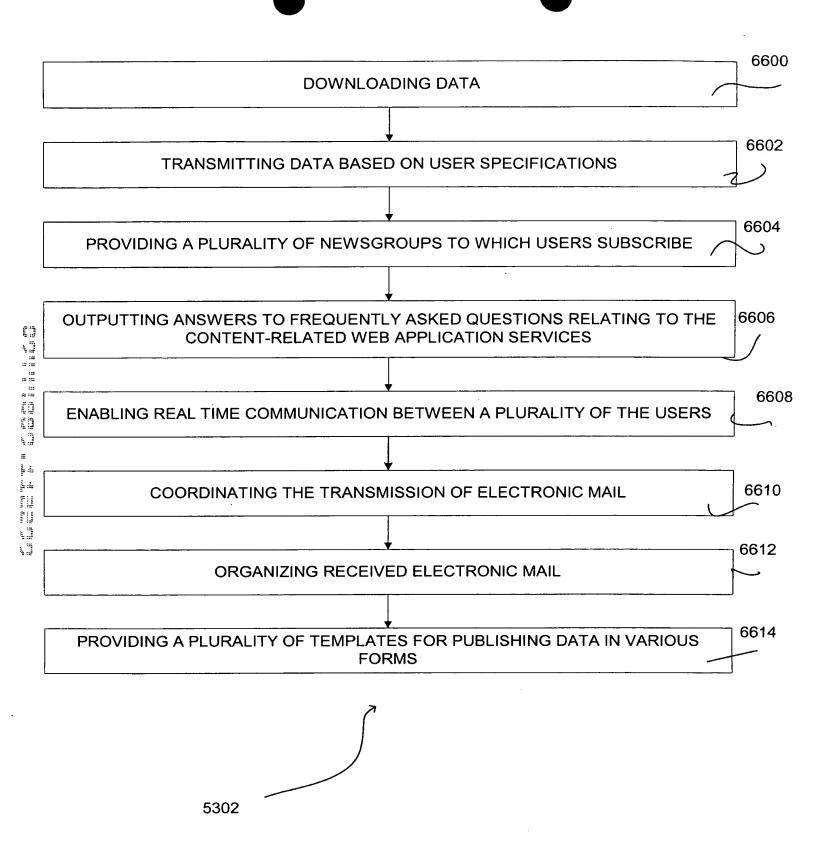
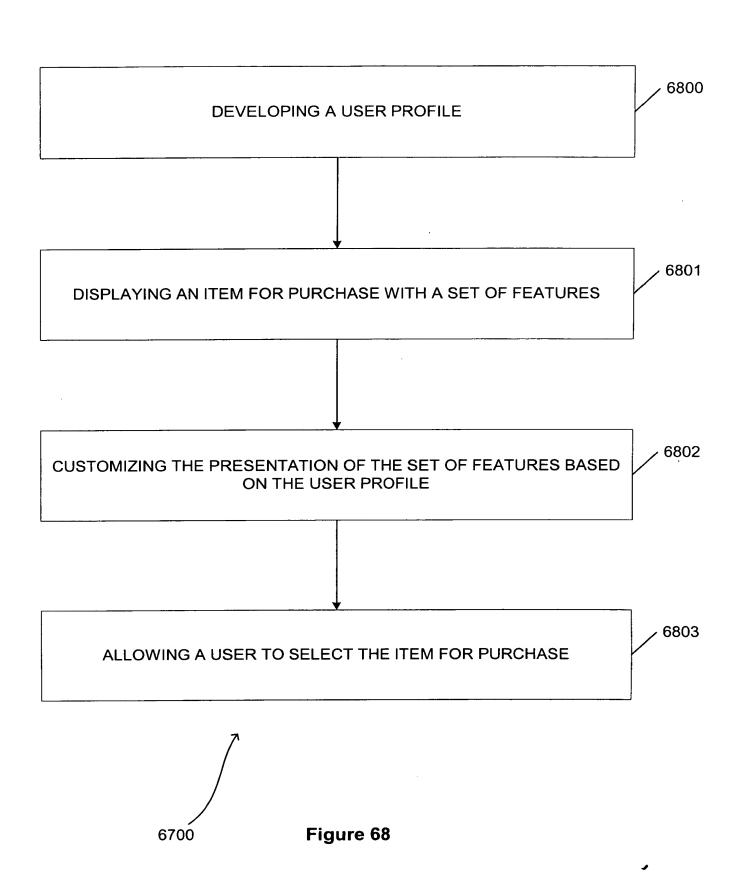


Figure 66

Figure 67



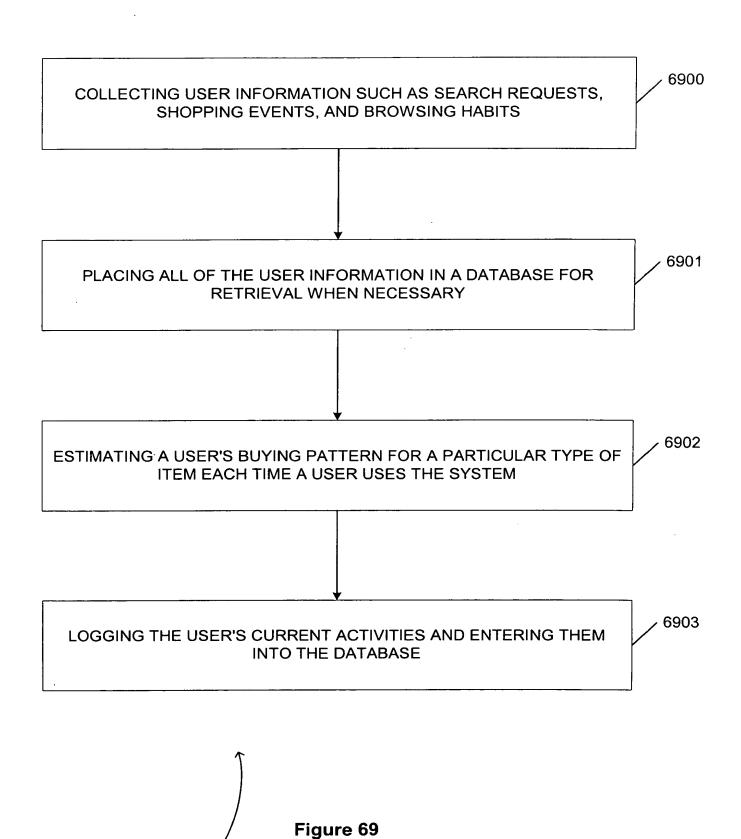
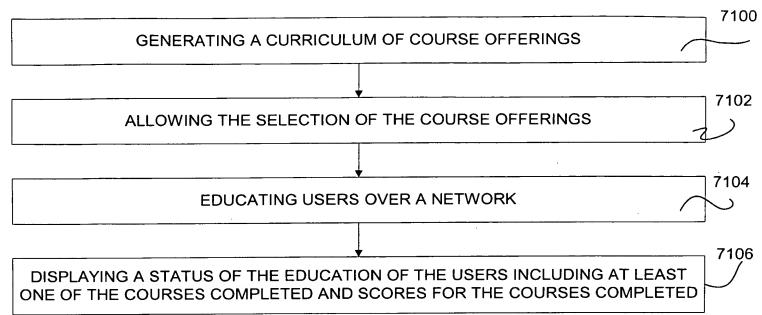
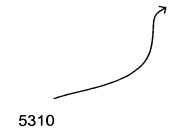


Figure 70





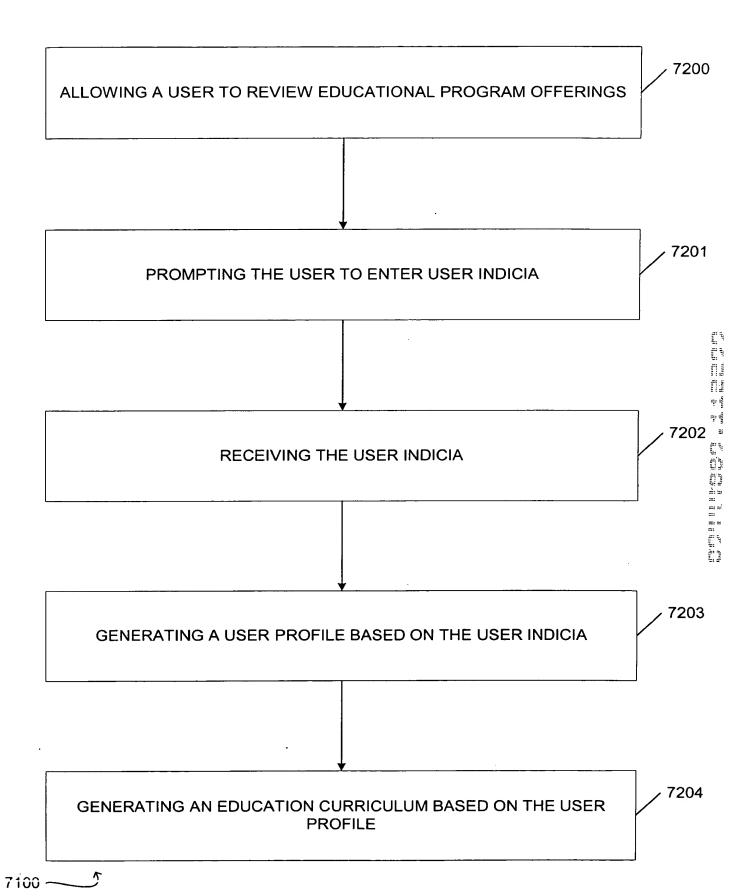


Figure 72

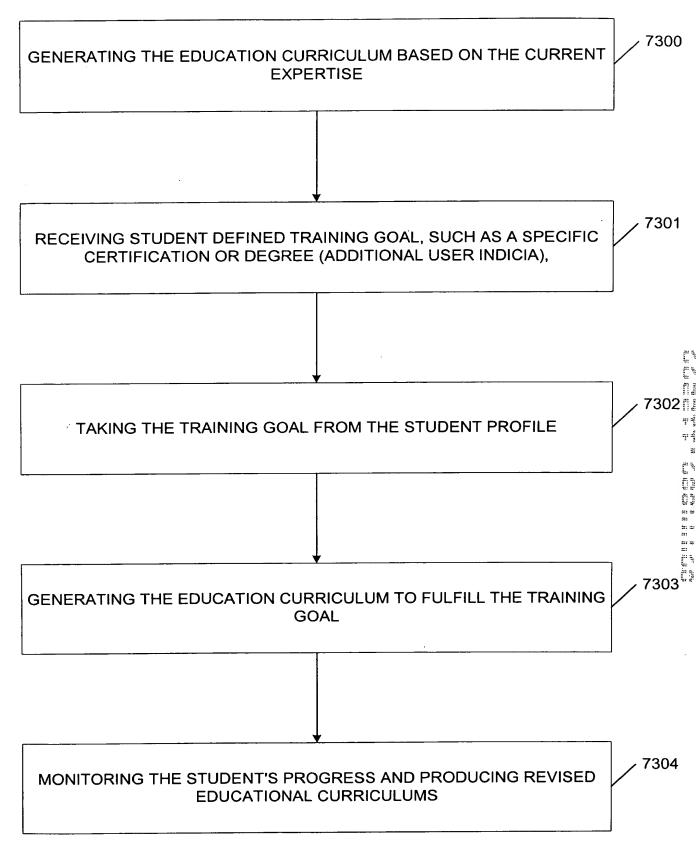
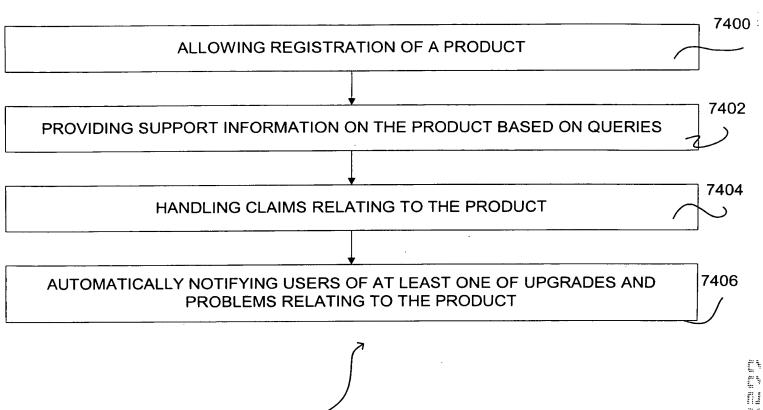
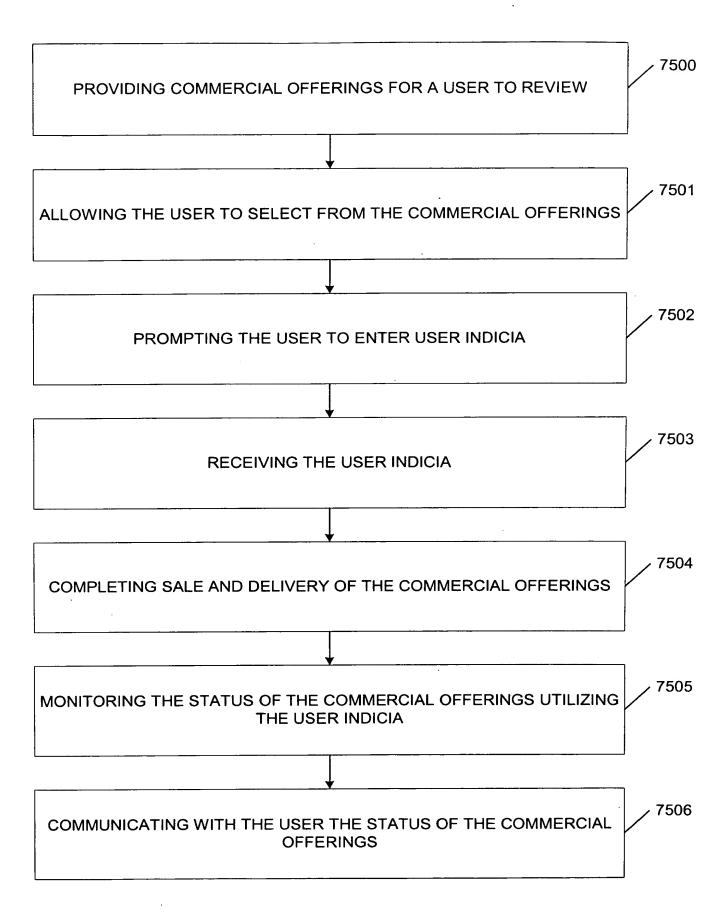


Figure 73

7203

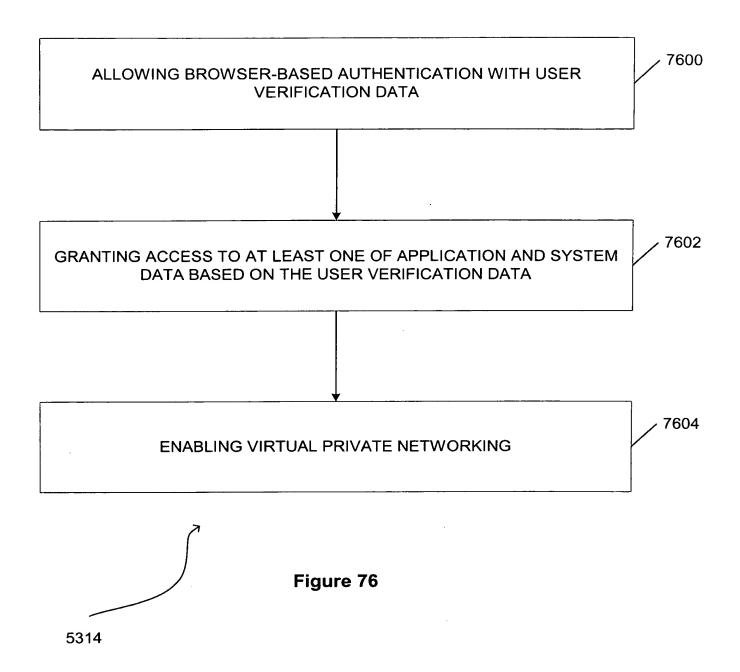


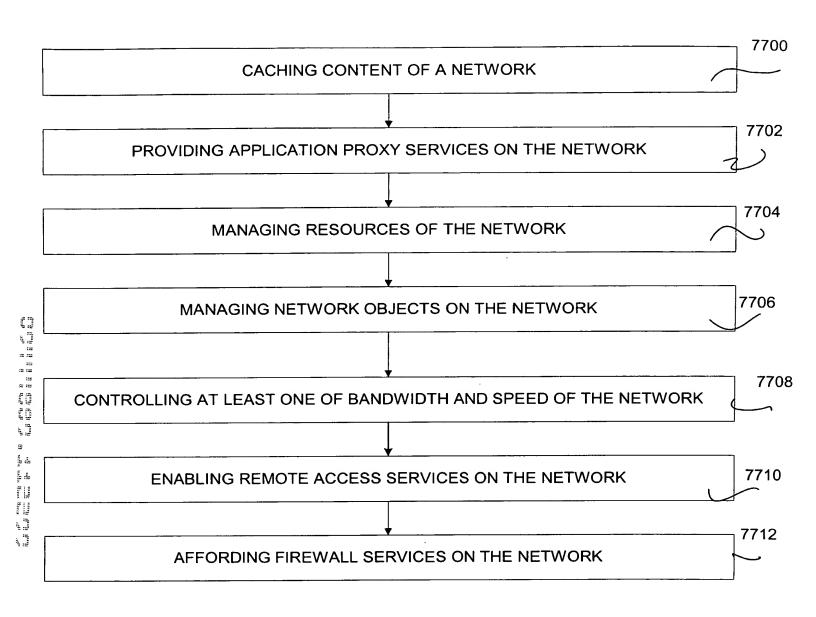
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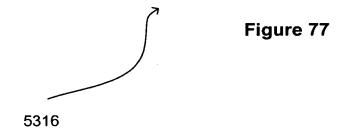


7406 -5

Figure 75







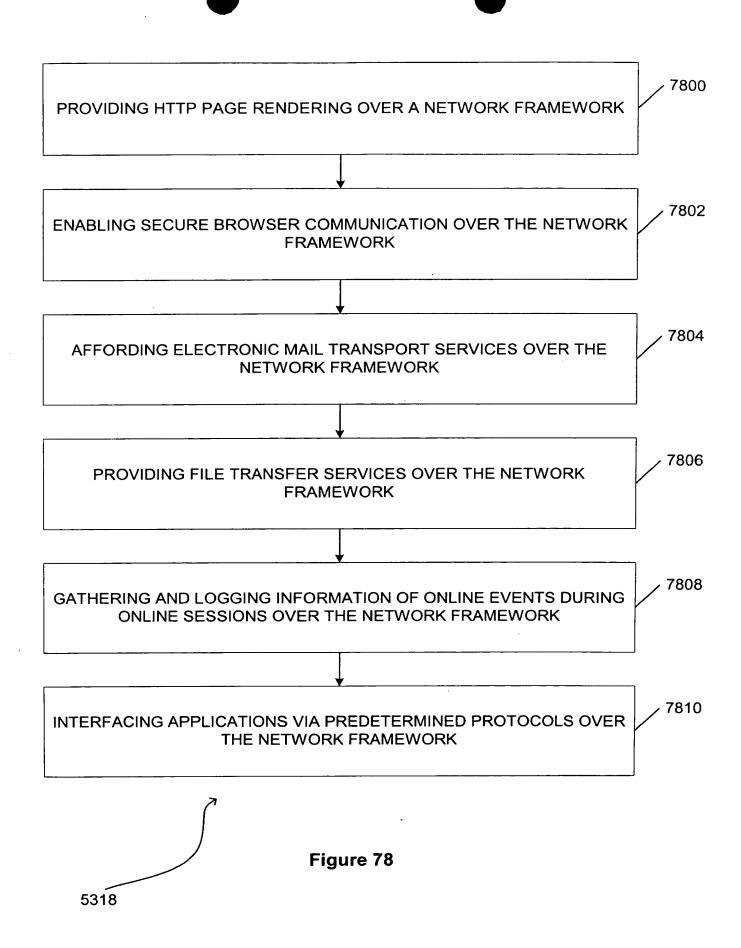
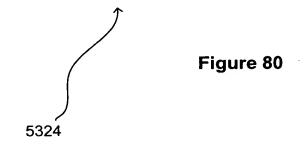
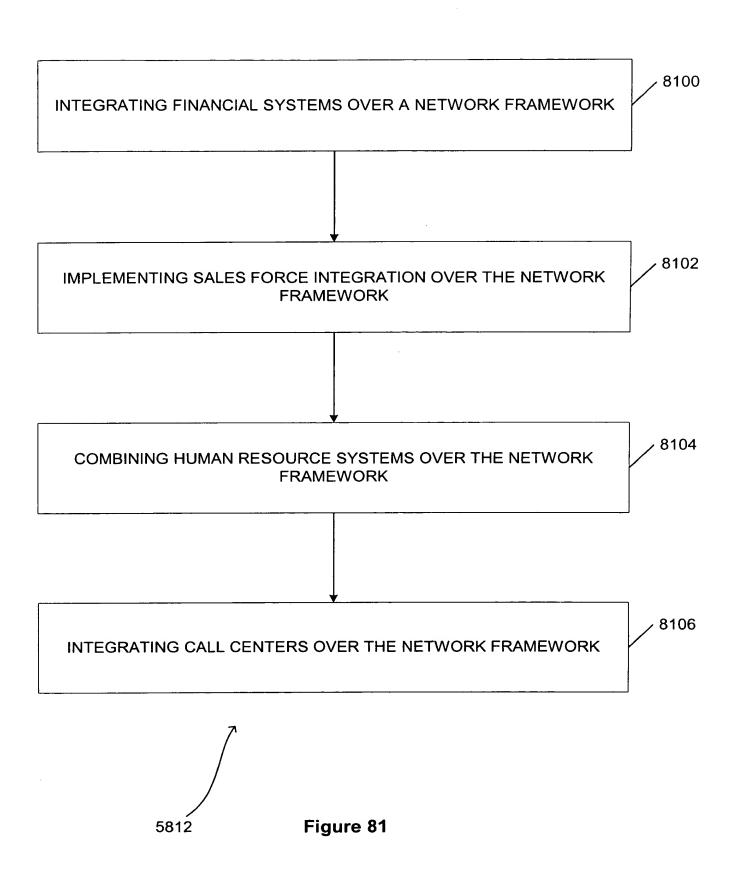
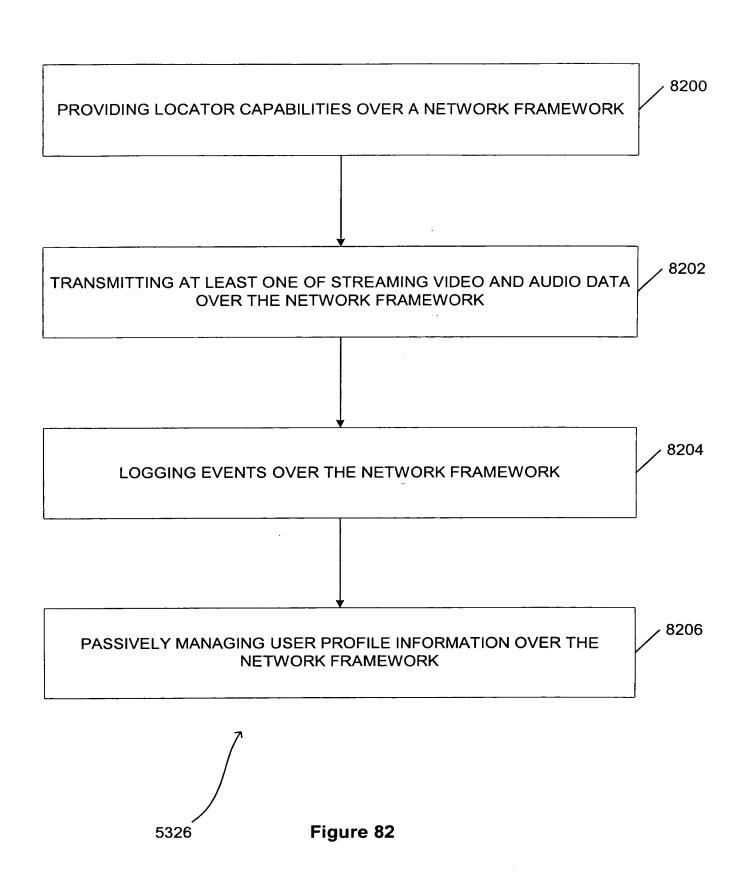


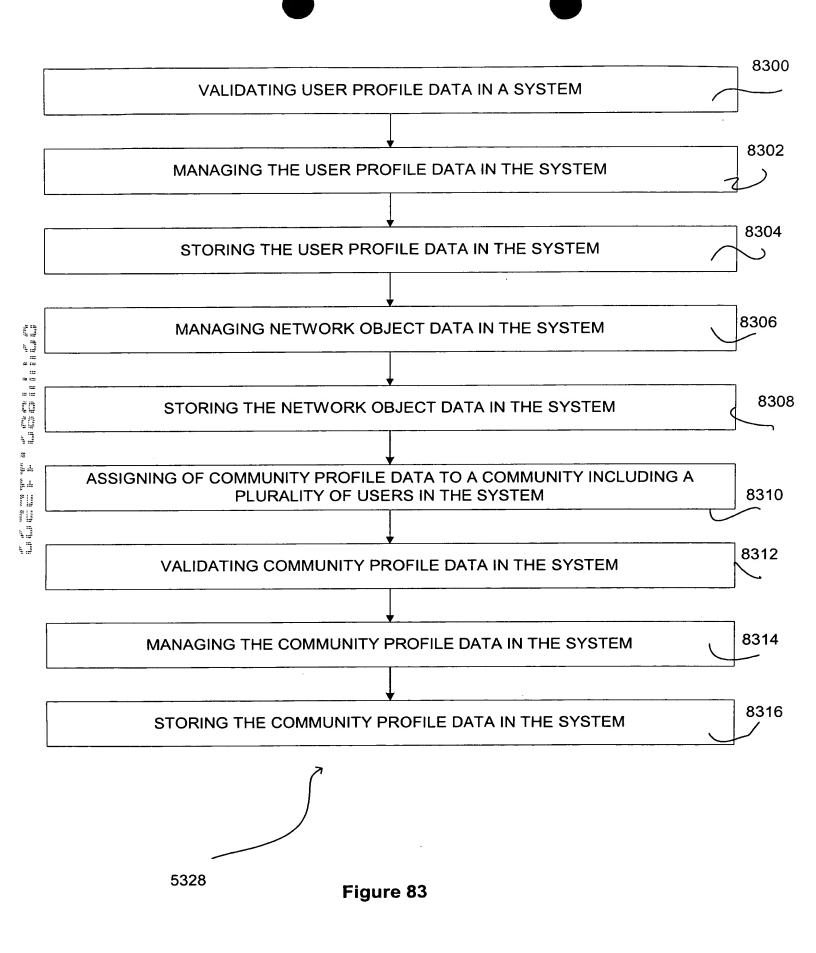
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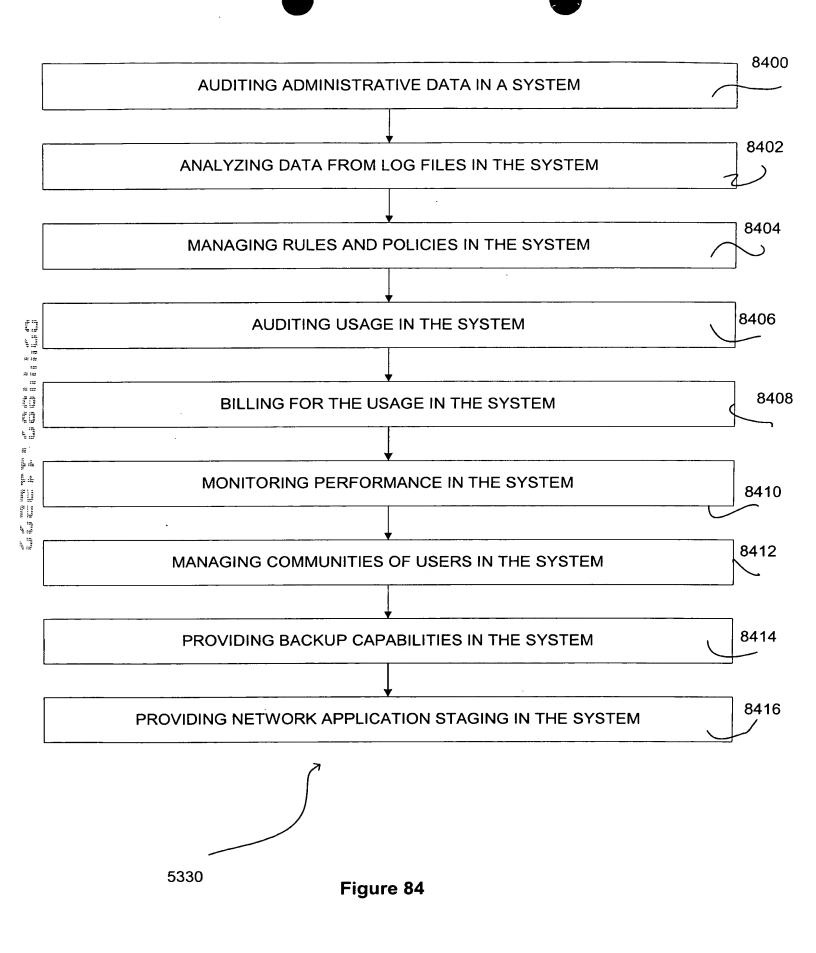
PROVIDING DATA ACCESS FROM MULTIPLE SIMULTANEOUS DATA SOURCES OVER A NETWORK FRAMEWORK STORING APPLICATION DATA OVER THE NETWORK FRAMEWORK 8000

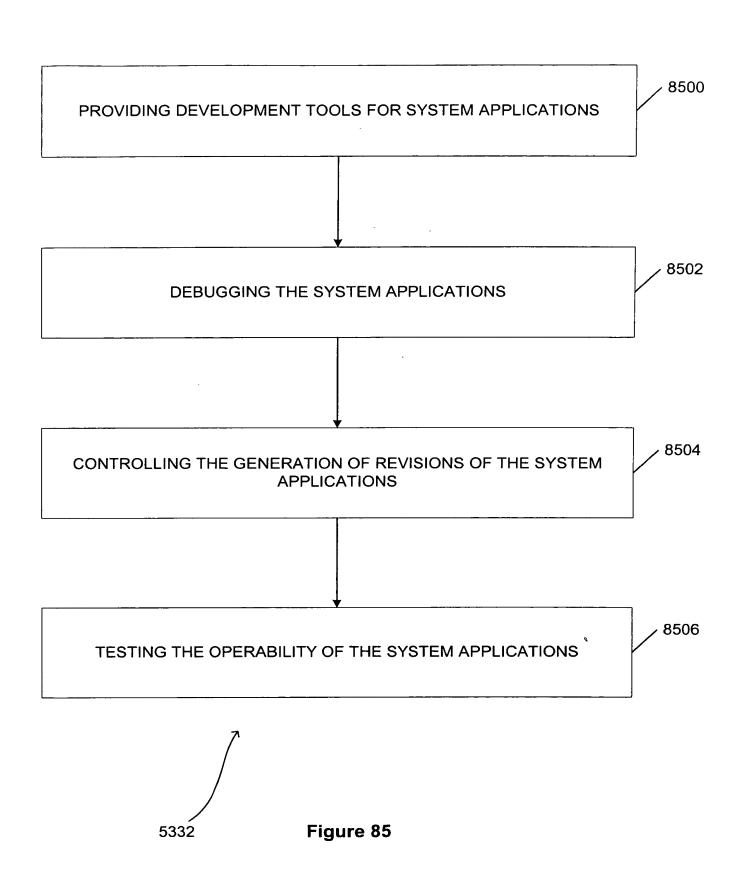












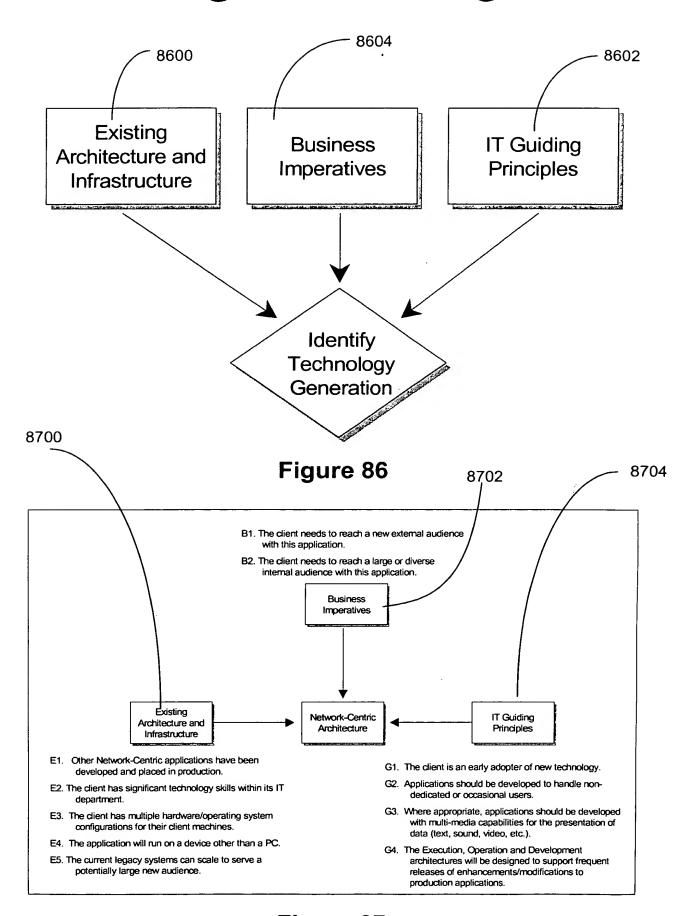
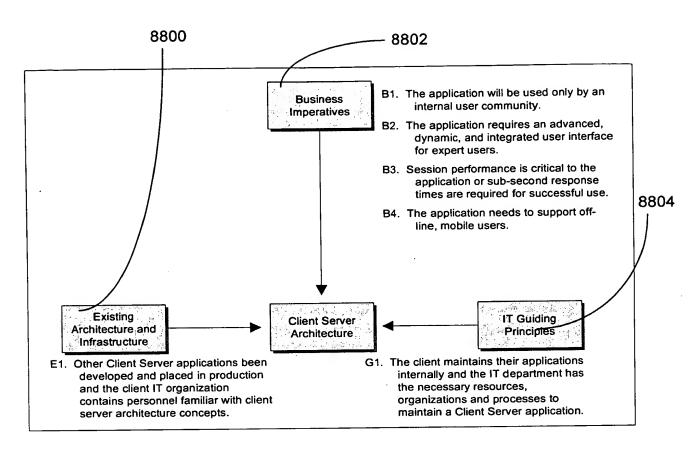


Figure 87



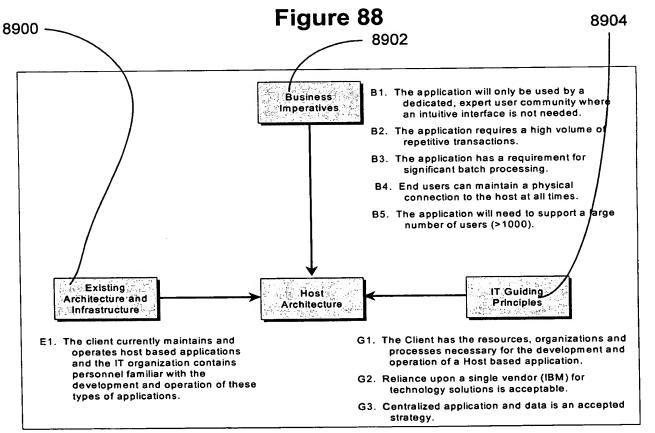


Figure 89

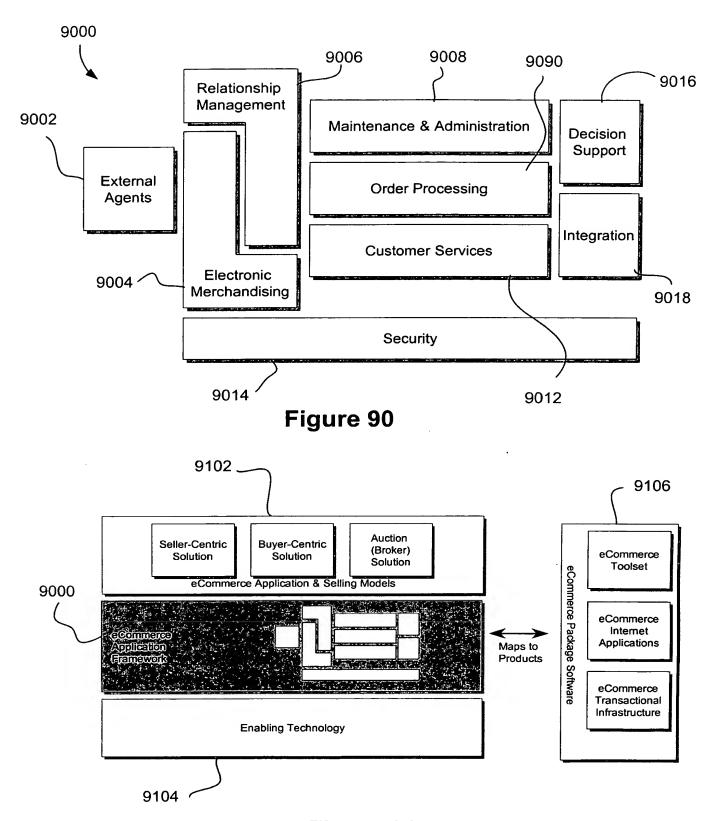


Figure 91

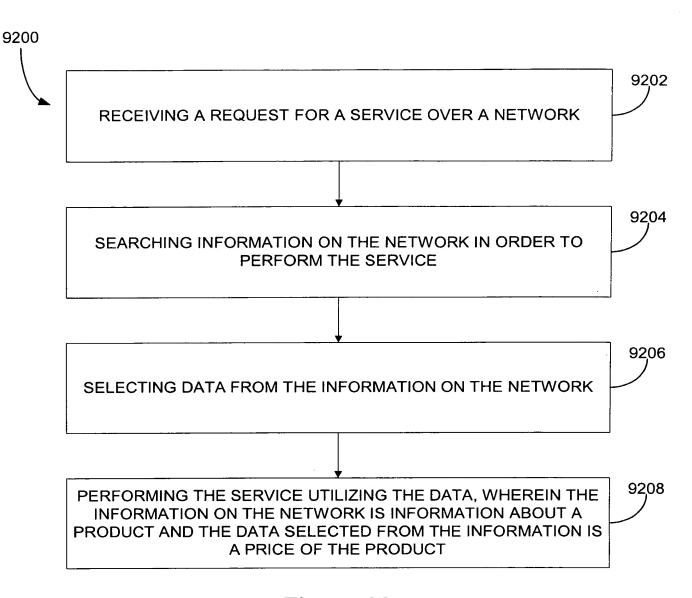


Figure 92

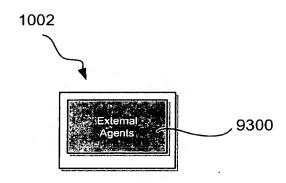


Figure 93

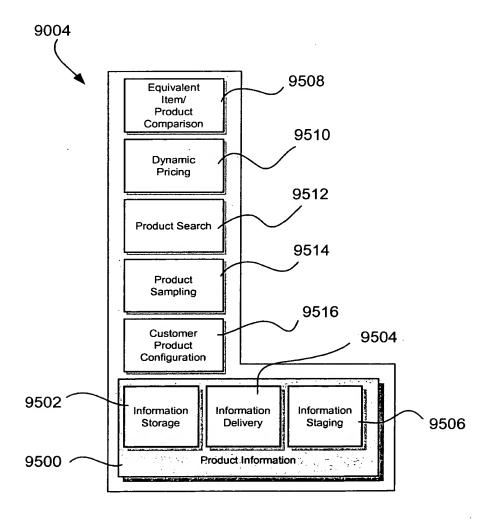


Figure 95

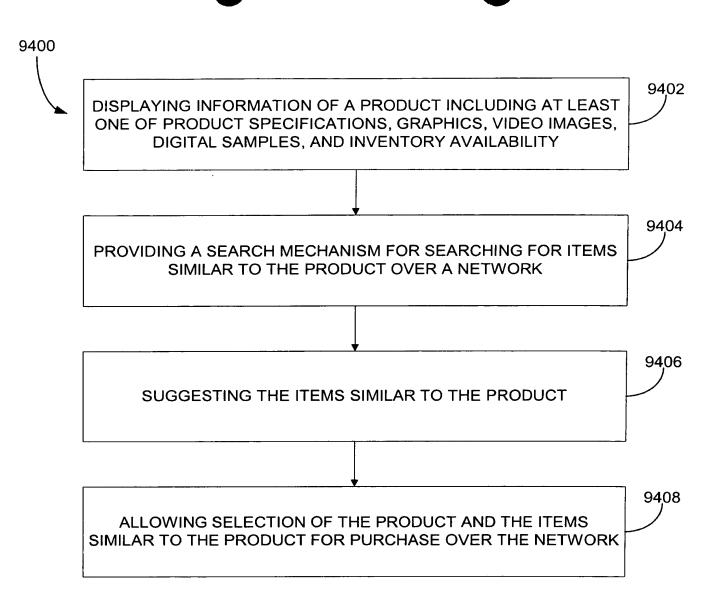


Figure 94

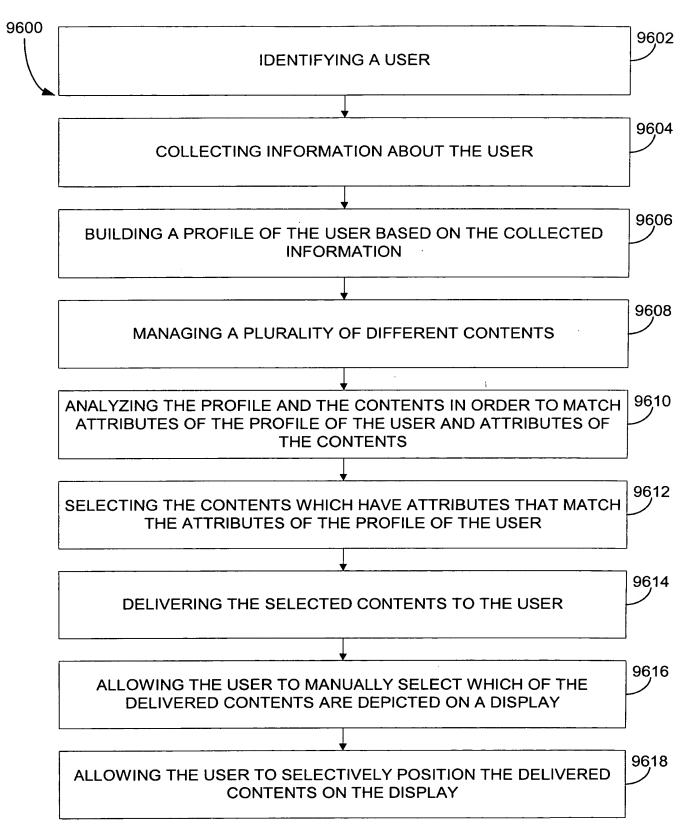
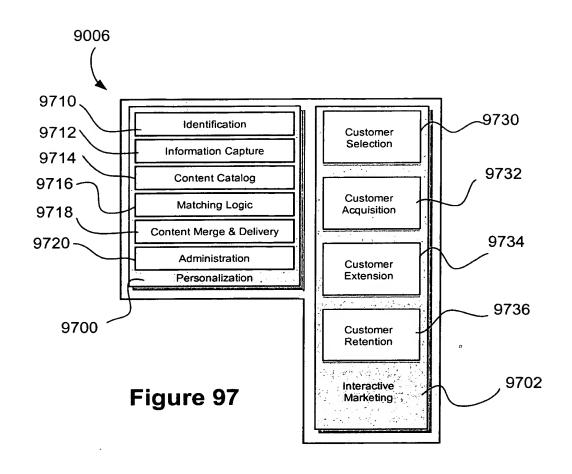


Figure 96



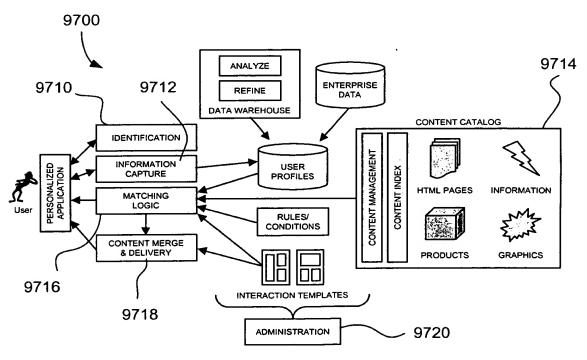
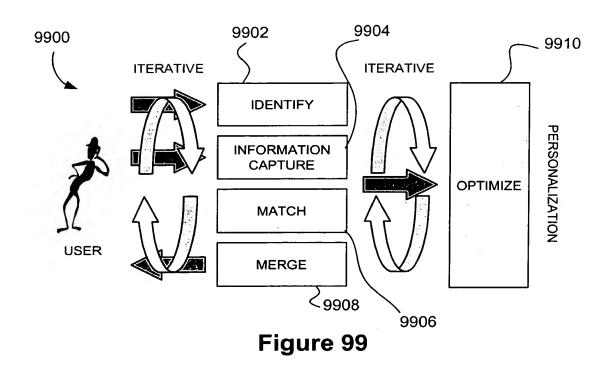


Figure 98



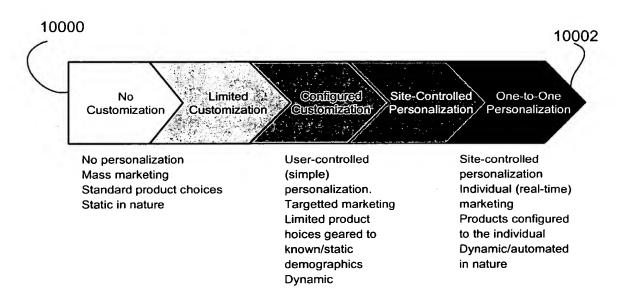


Figure 100

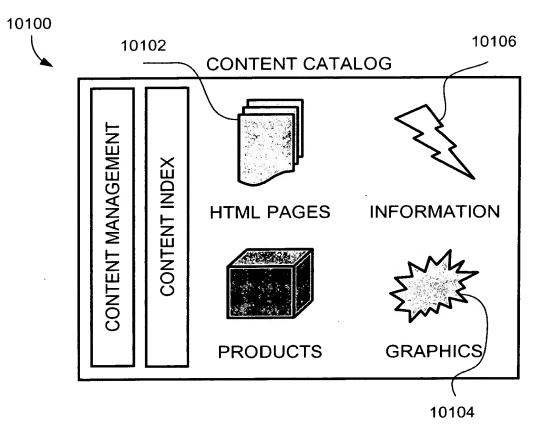
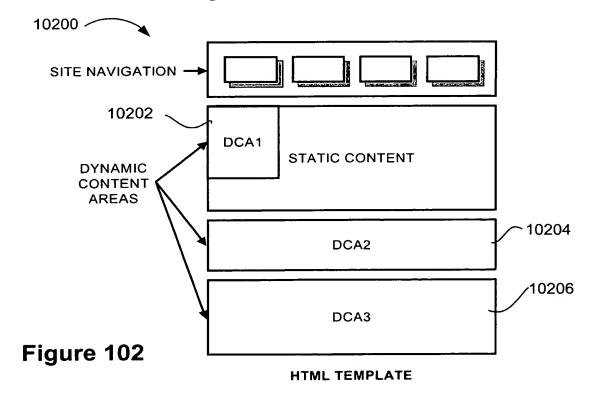


Figure 101



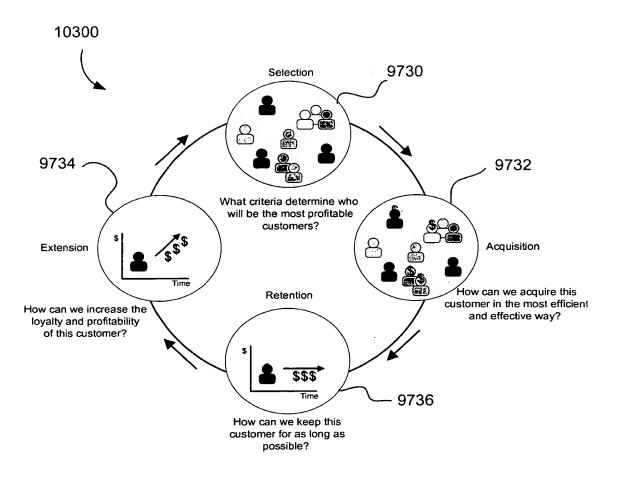


Figure 103

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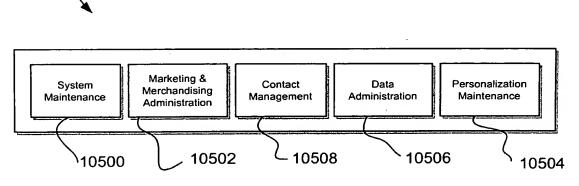


Figure 105

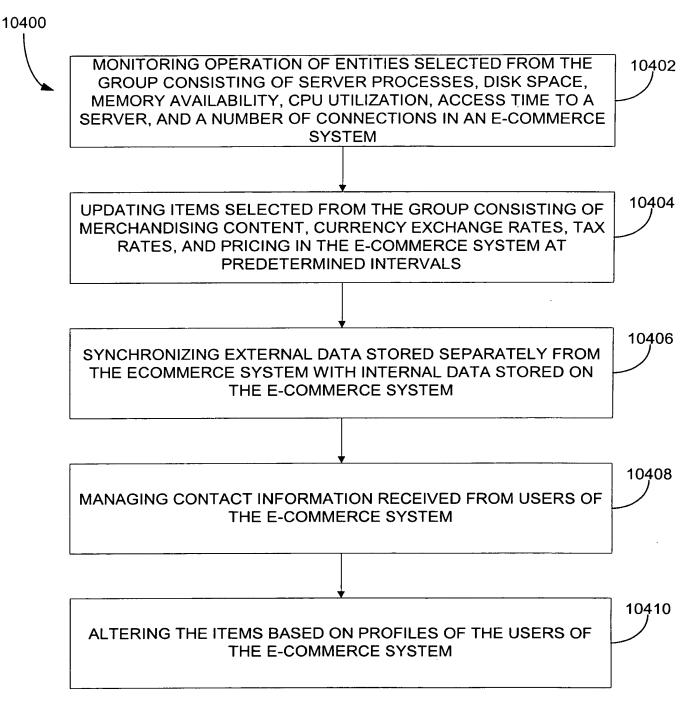


Figure 104

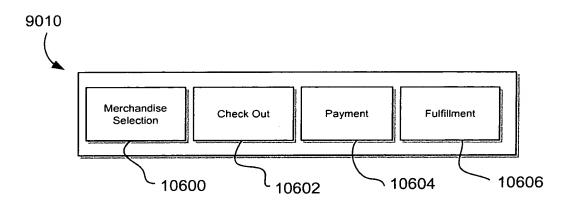


Figure 106

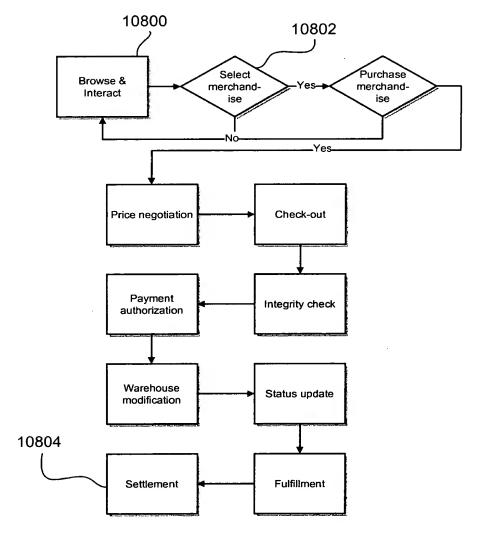


Figure 108

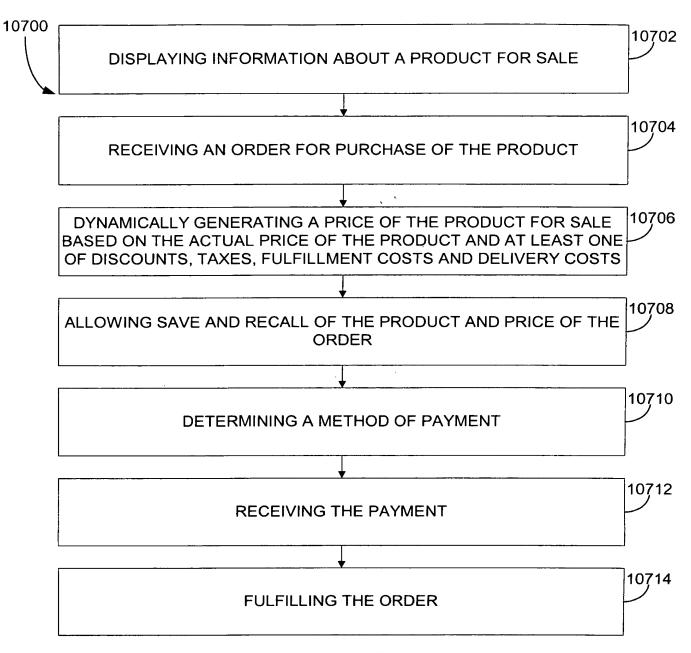


Figure 107

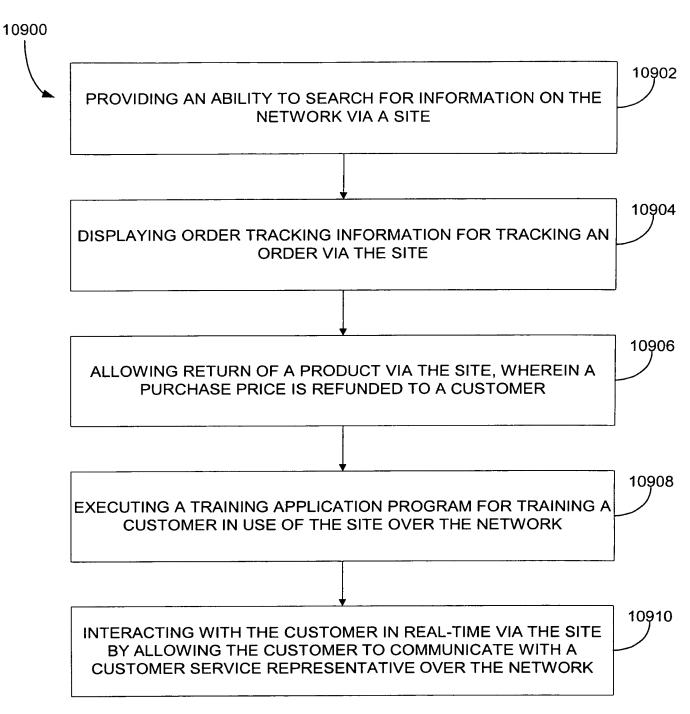


Figure 109



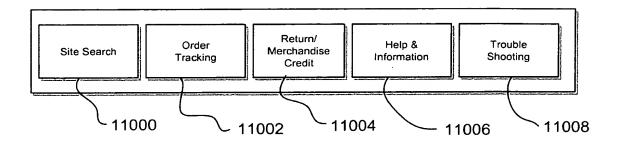


Figure 110

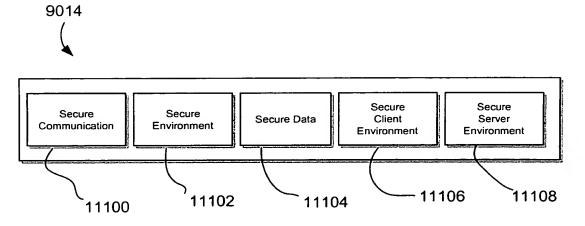


Figure 111

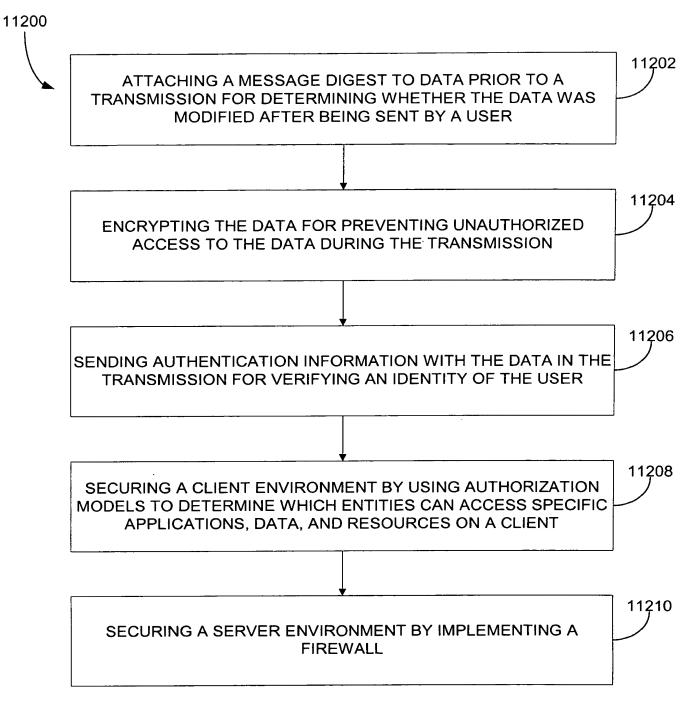


Figure 112

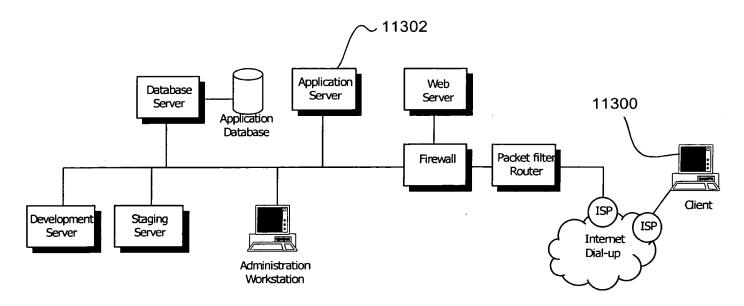


Figure 113

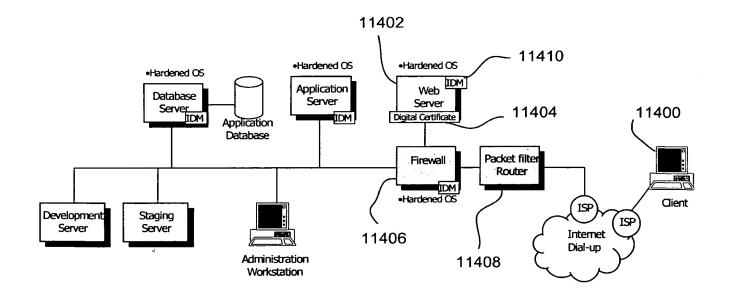


Figure 114

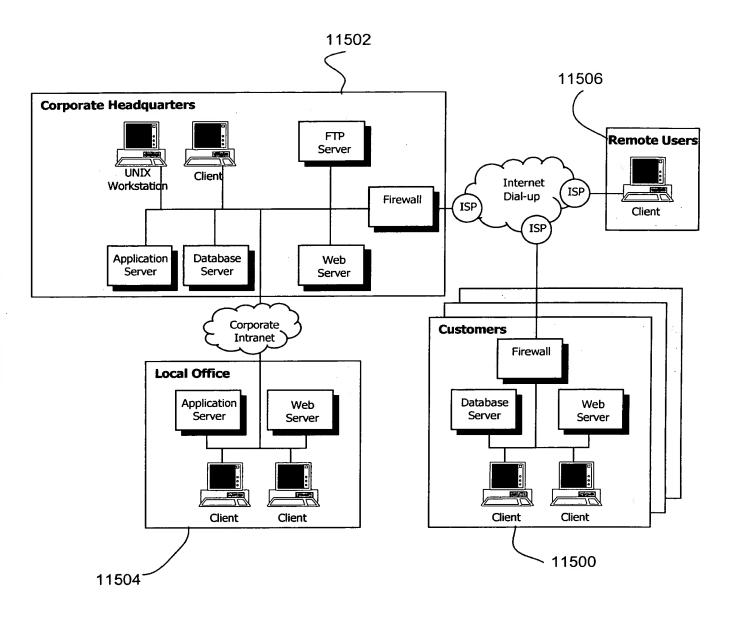


Figure 115

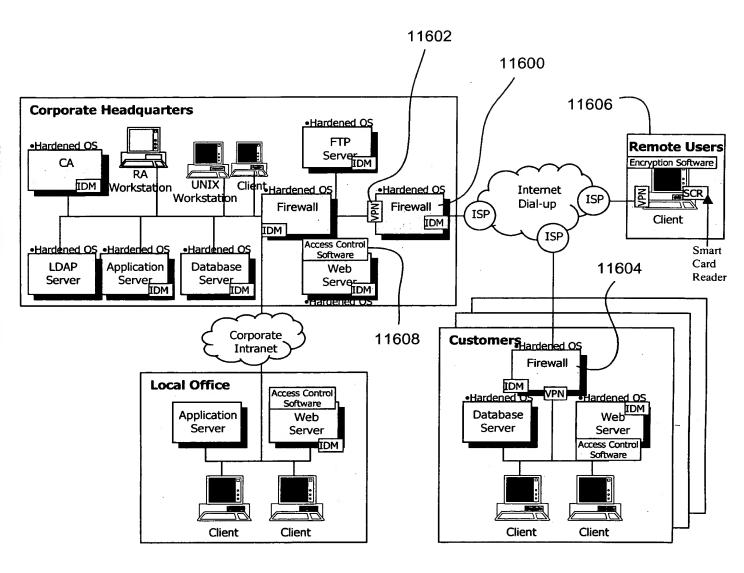


Figure 116

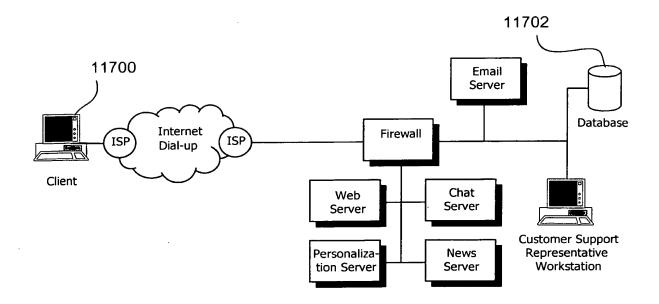


Figure 117

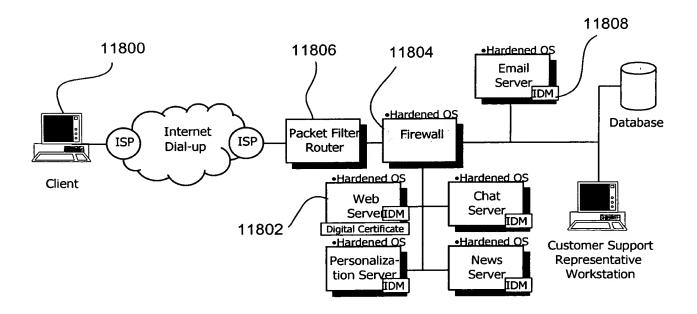
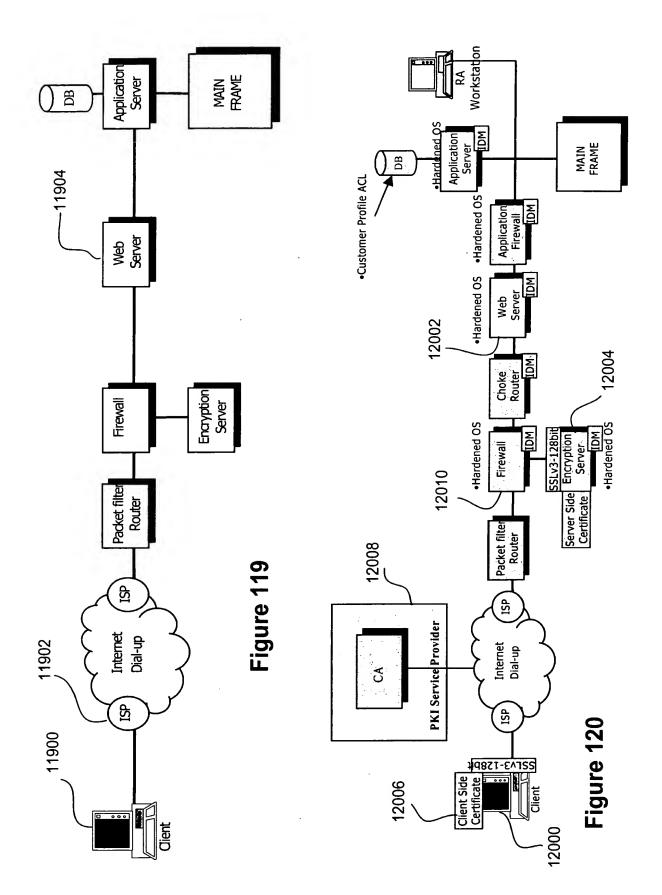


Figure 118



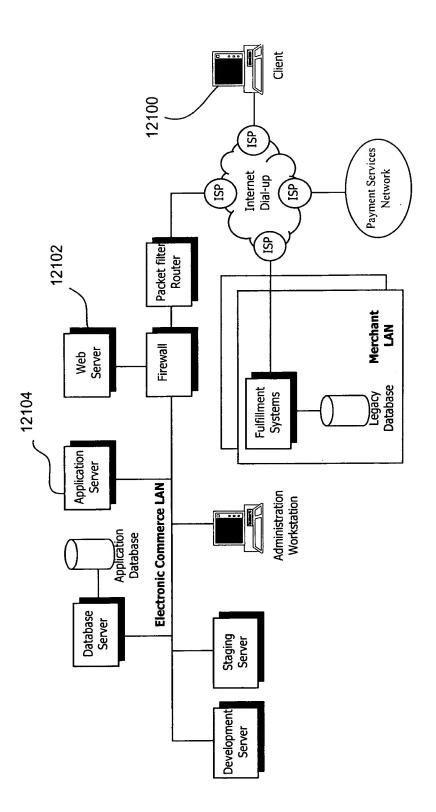


Figure 121

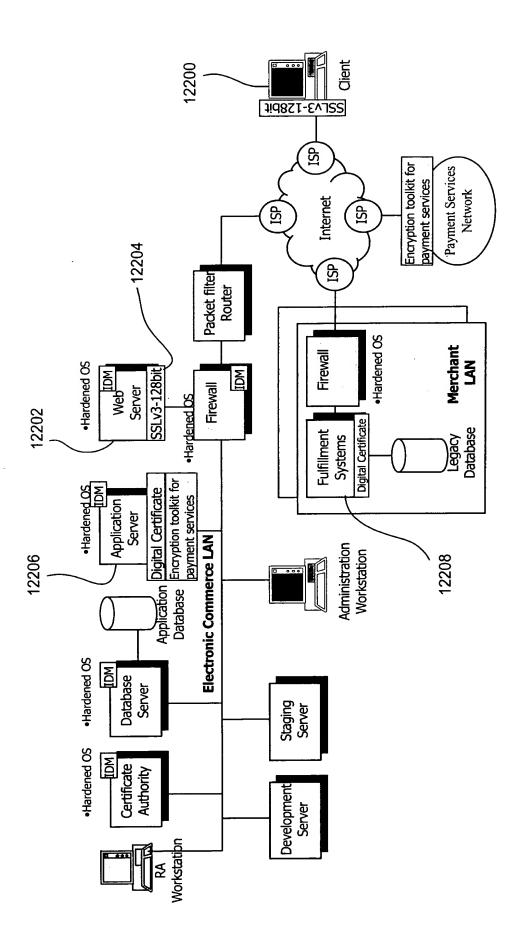


Figure 122

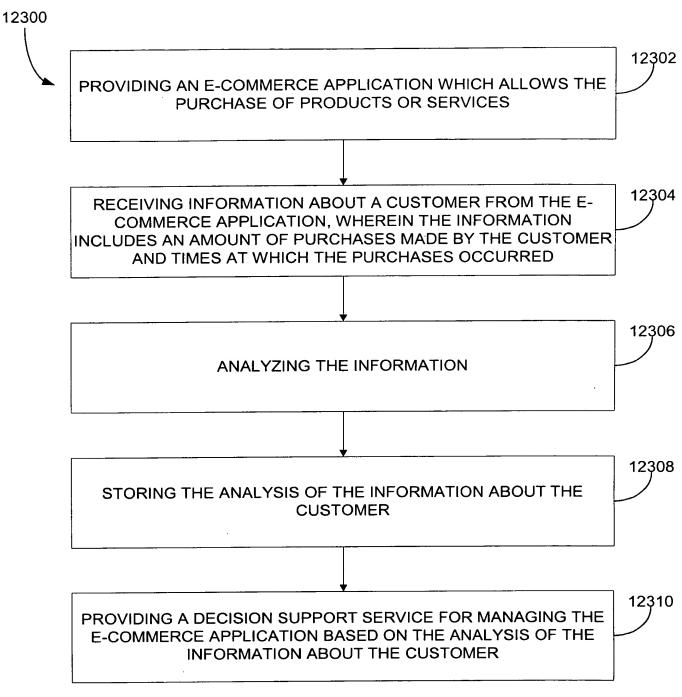
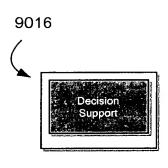


Figure 123



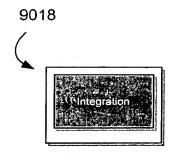


Figure 124

Figure 125

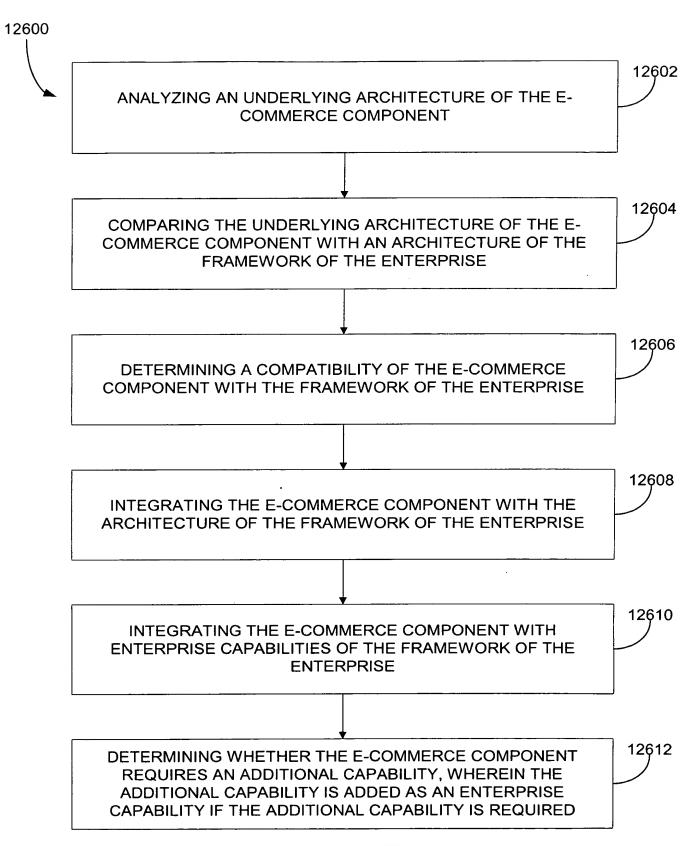


Figure 126

Bandwidth Market

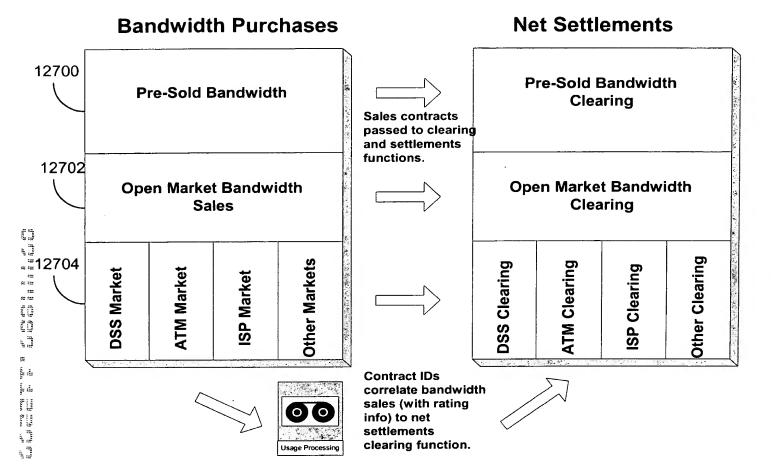
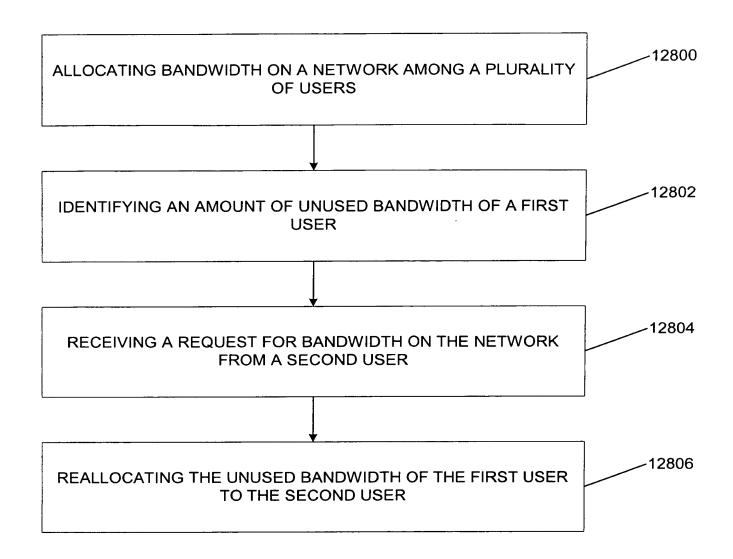


Figure 127



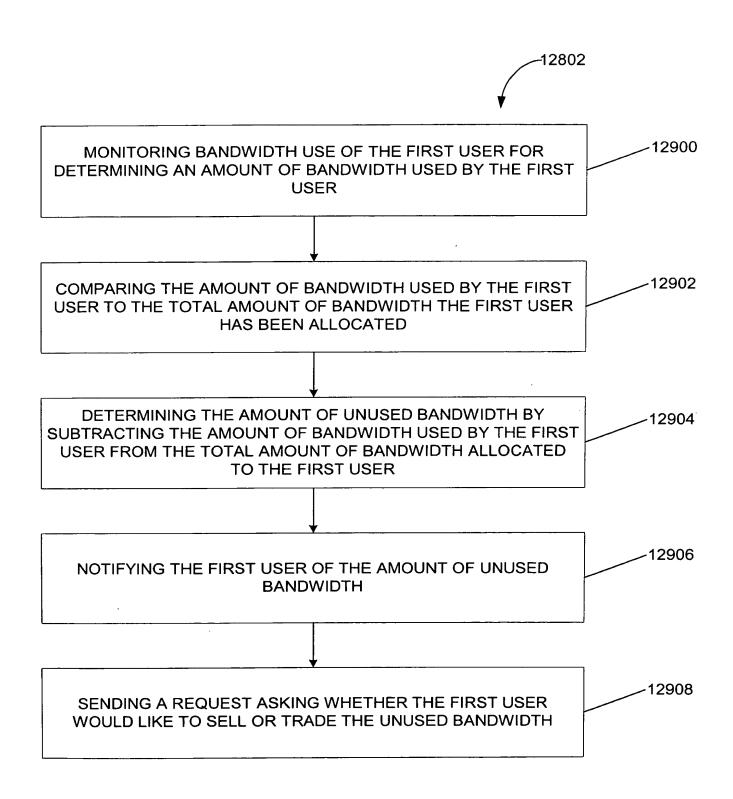
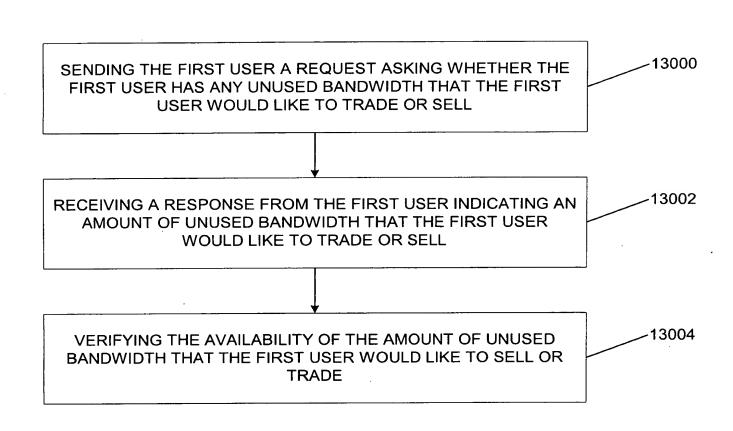
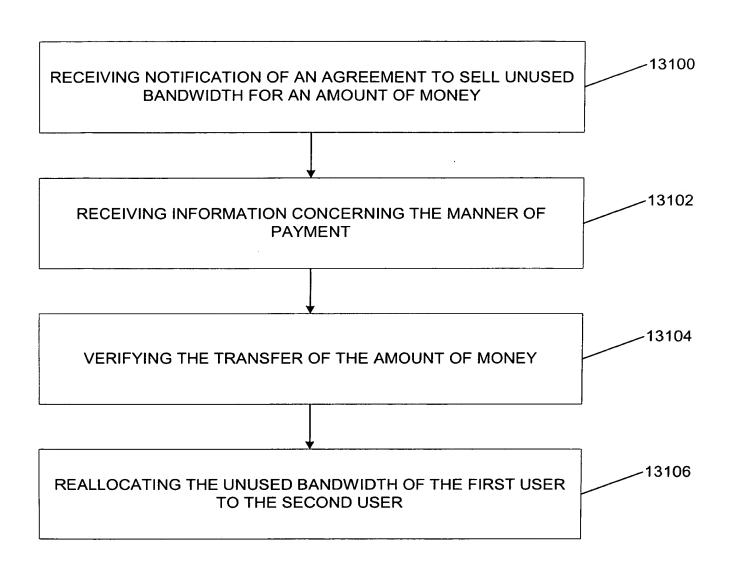


Figure 129

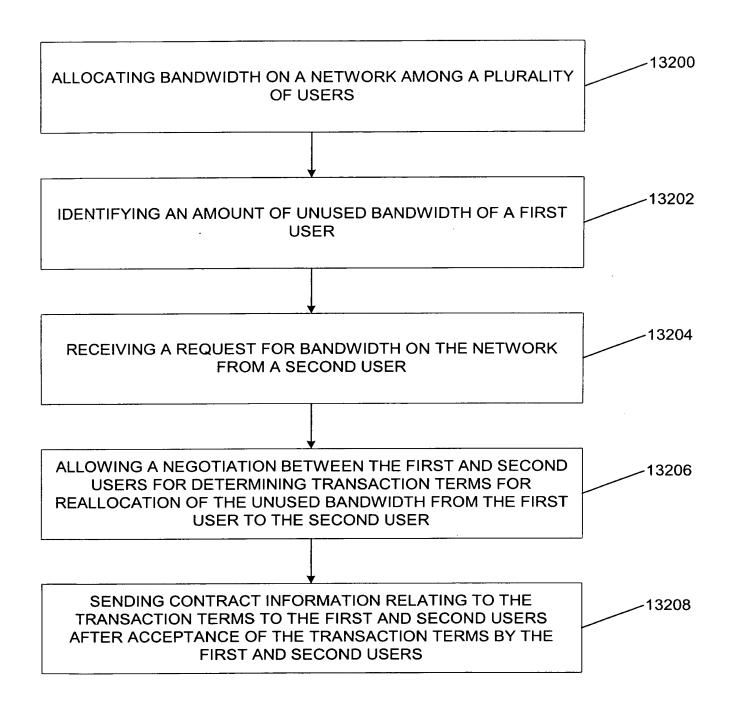


-12802



-12806

Figure 131



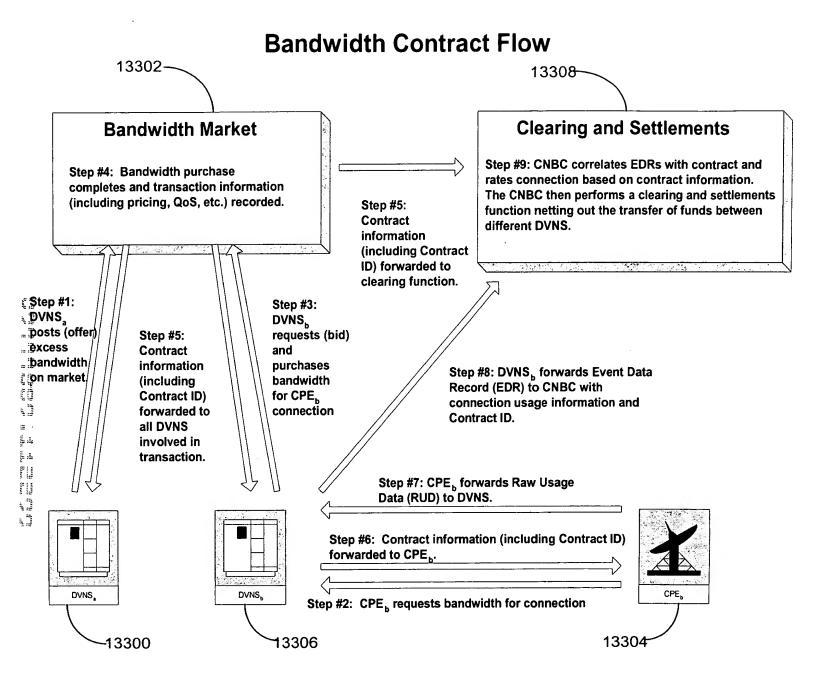
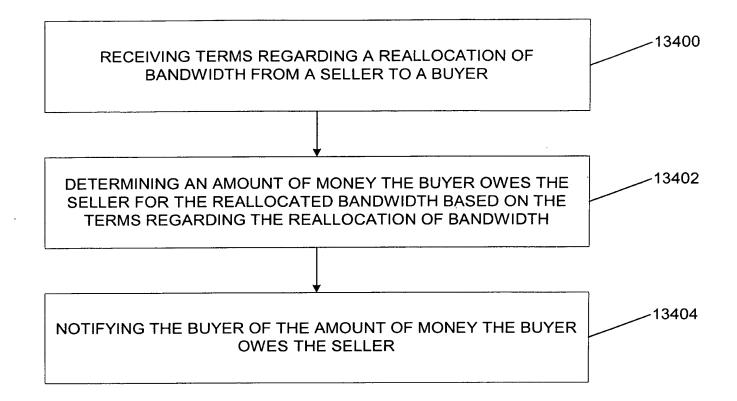


Figure 133



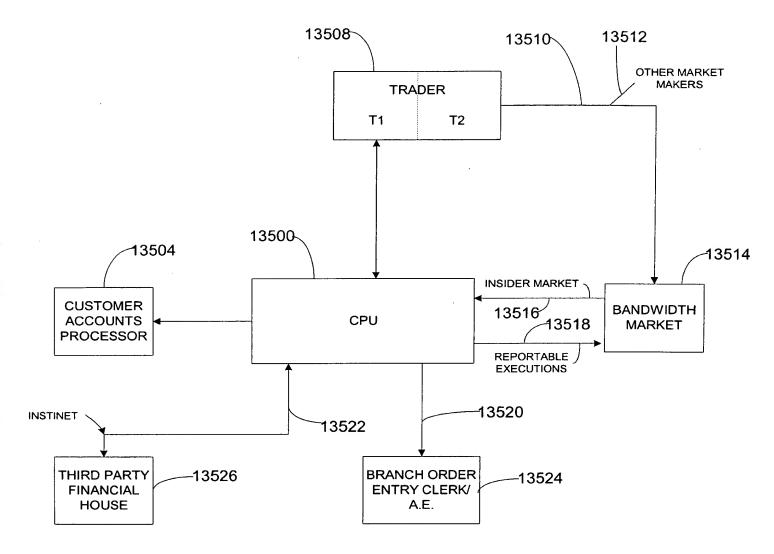
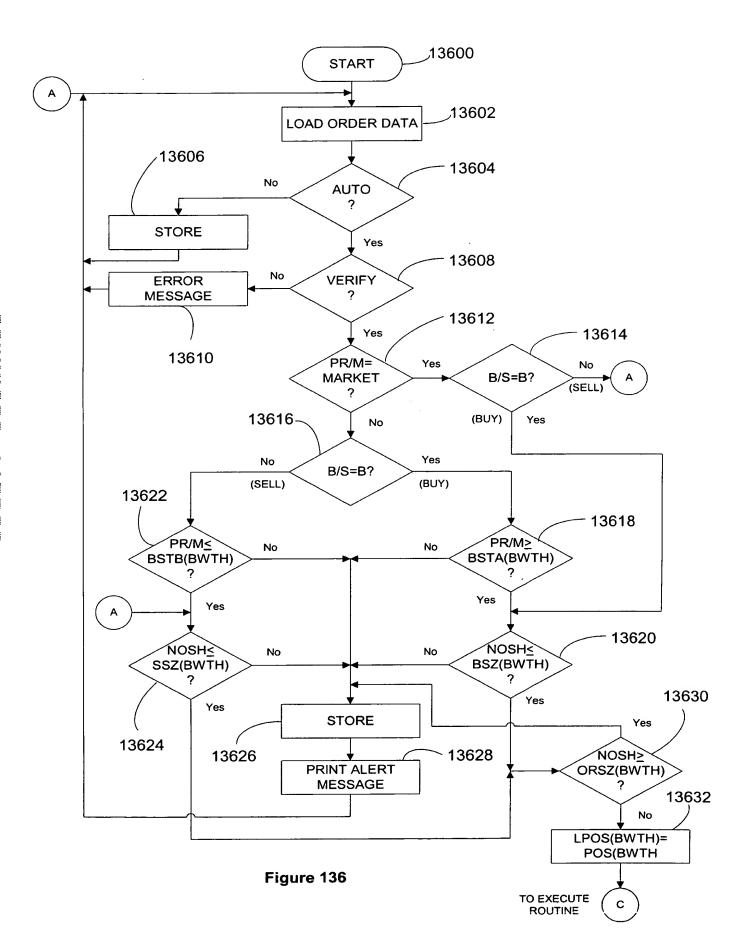


Figure 135



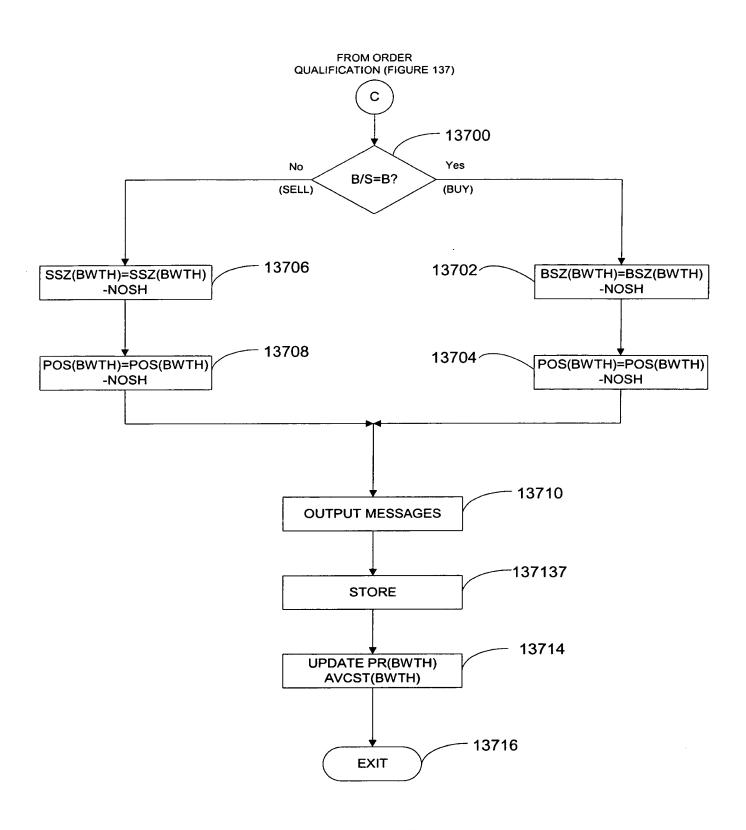


Figure 137

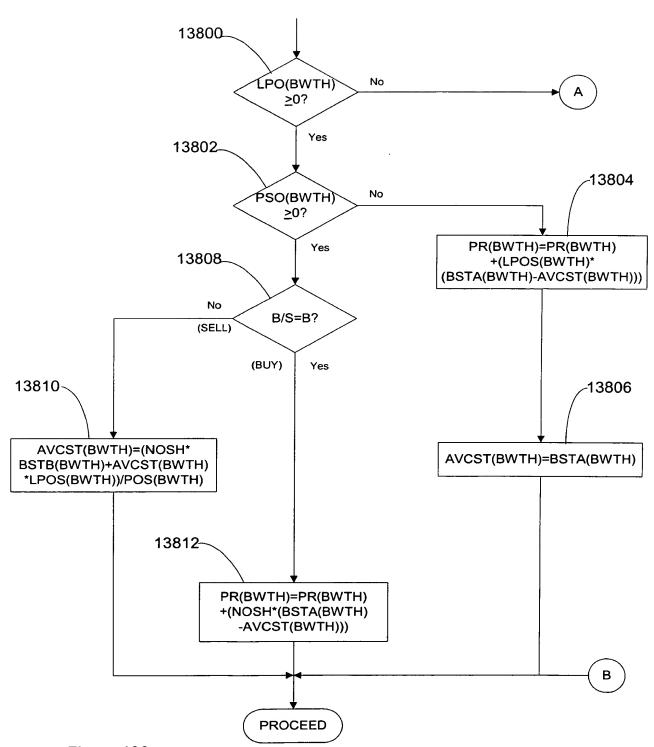


Figure 138

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Figure 139

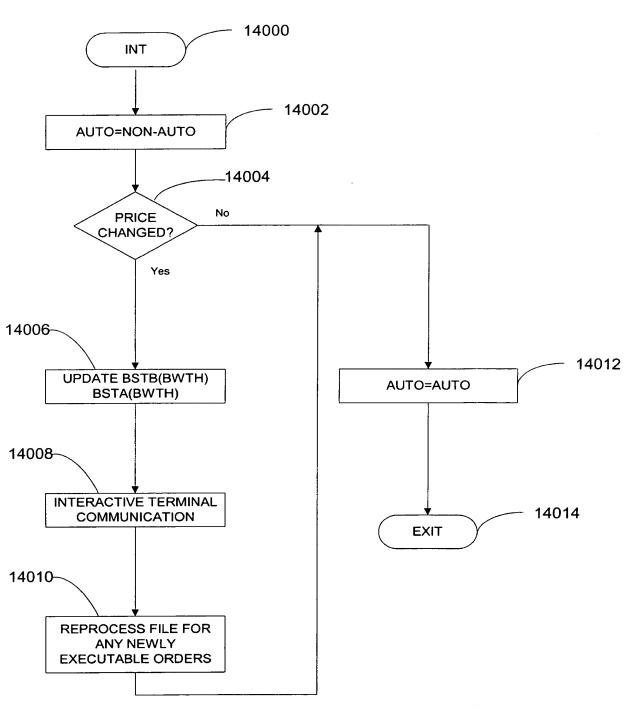


Figure 140

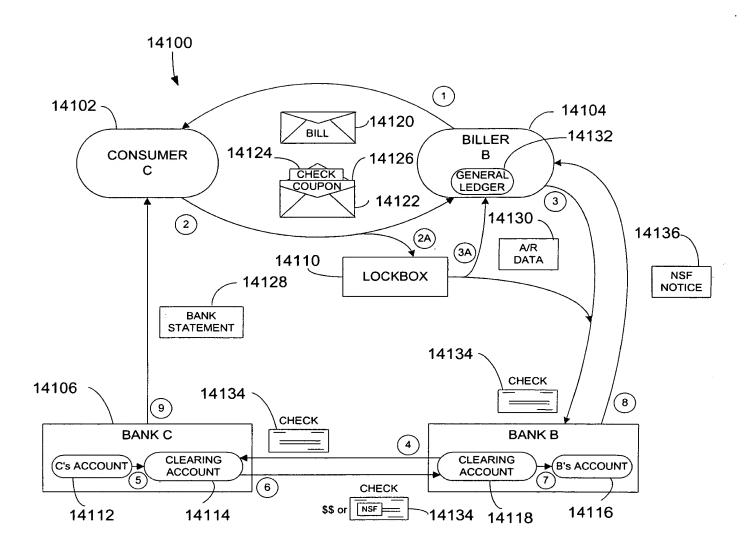
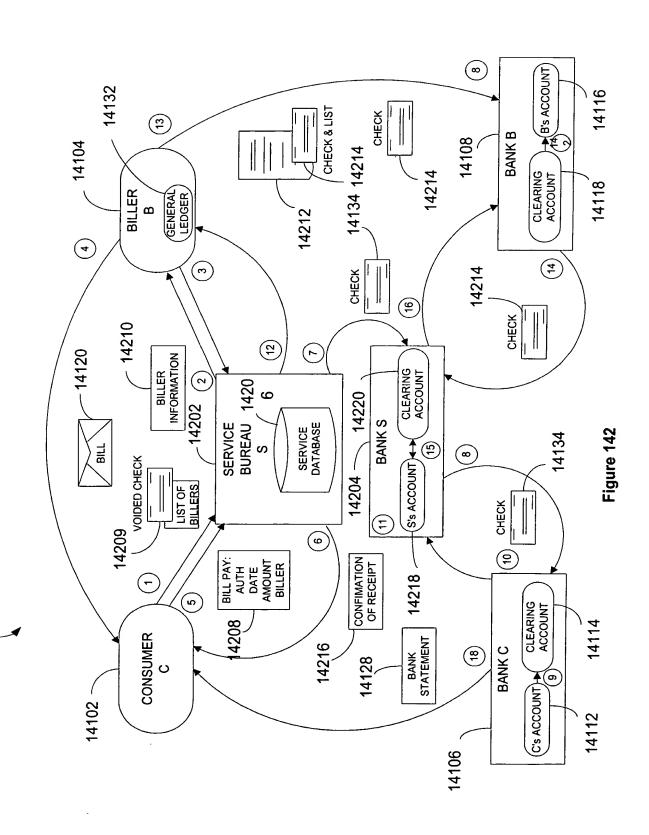


Figure 141

14200



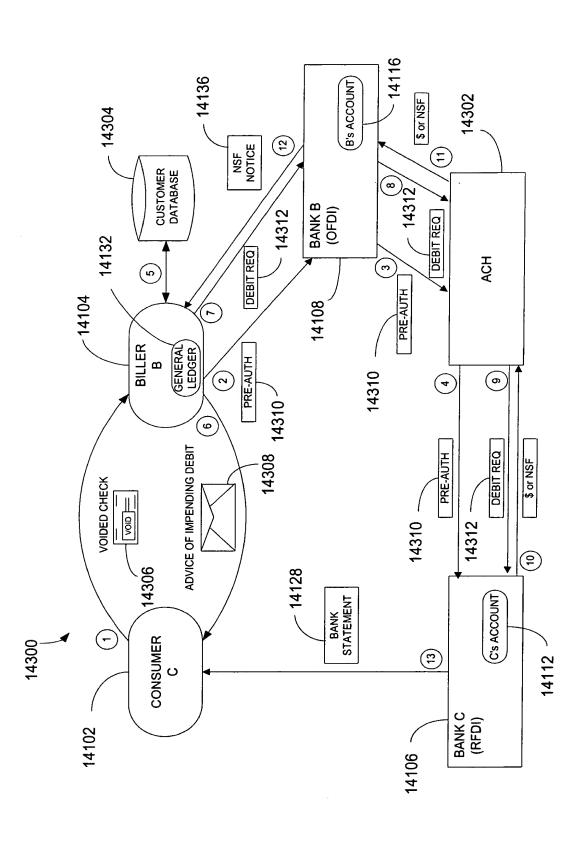


Figure 143